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## ***3. Commodity Flows***

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## ***Commodity Movement Between Bay Area and Rest of the Nation***

In terms of total tonnage, approximately a half of the domestic\* goods movement in the Bay Area stays entirely within the nine county region. Inbound tonnage exceeds outbound tonnage, to some extent because of the large amount of oil shipped from Alaska and the strong consumer economy. Trade with other parts of California accounts for the largest share of domestic tonnage moves, with the San Joaquin Valley counties representing the most significant trading region for the Bay Area, followed by the Los Angeles-Orange county area. States that represent significant trading partners with the Bay Area include Alaska, Oregon, Illinois, Texas, and Washington.

Trucking is responsible for most Bay Area commodity trade, carrying more than 80% measured in terms of both tons and value. Rail carries 12.5% of commodity flows by value and 6.3% by tonnage. Air carries high value, low weight commodities (2.3% of commodity flows by value) while domestic water movements tend to carry lower value, high weight commodities.

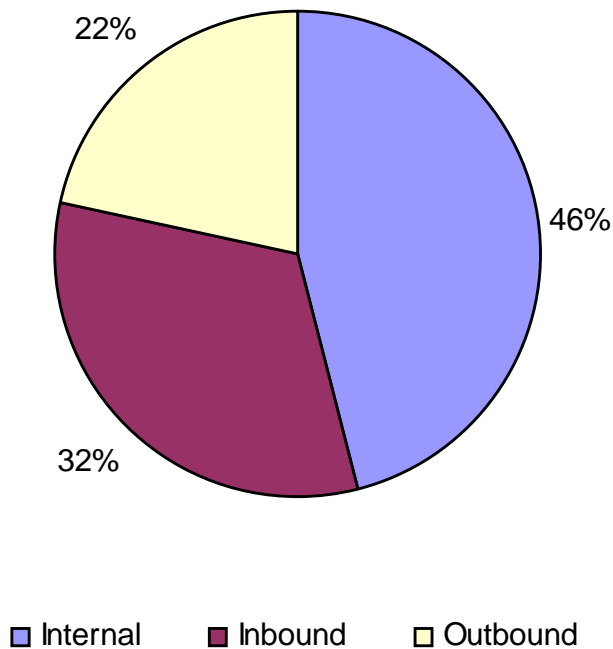
Heavy construction materials represent the largest share of commodity movements in the region by tonnage, whereas warehouse and distribution movements, electrical machinery and equipment, other machinery, food, and transportation equipment are leading commodities based on value.

*\*Domestic goods movement includes the inland movements associated with international trade but not the movements to/from other countries.*

# Bay Area Trade Balance

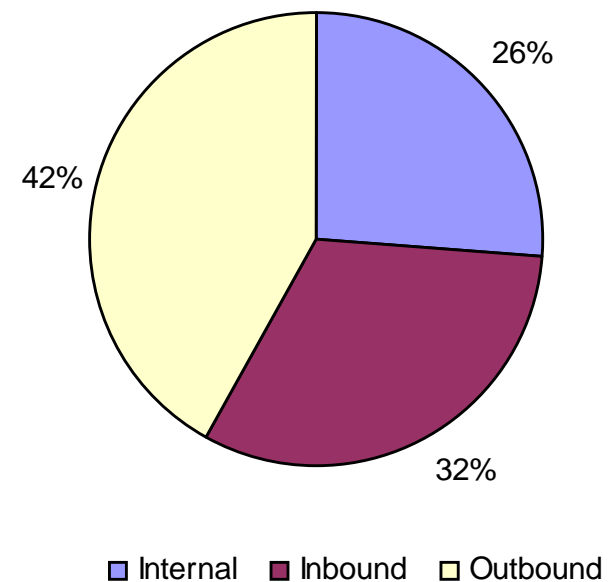
100% = 322 M Tons

## By TONS



100% = \$ 408 B

## By VALUE

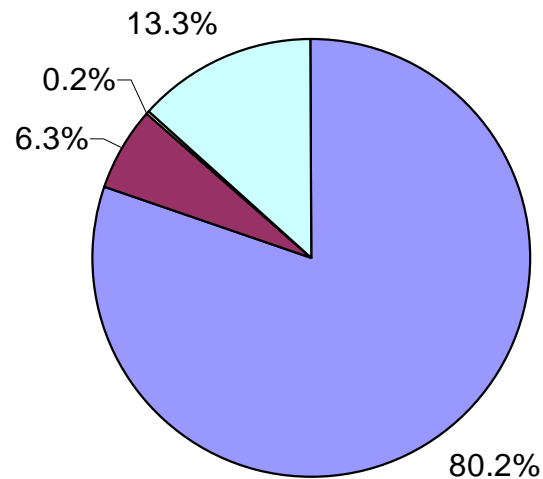


Source: 1996 ITMS Data

# Trucking Carries the Largest Share of Domestic Trade by Both Tons and Value

100% = 322 M Tons

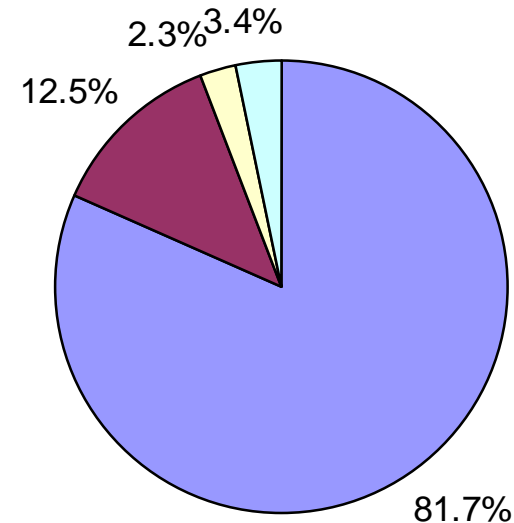
**By TONS**



■ By Truck ■ By Rail ■ By Air ■ By Water

100% = \$408 B

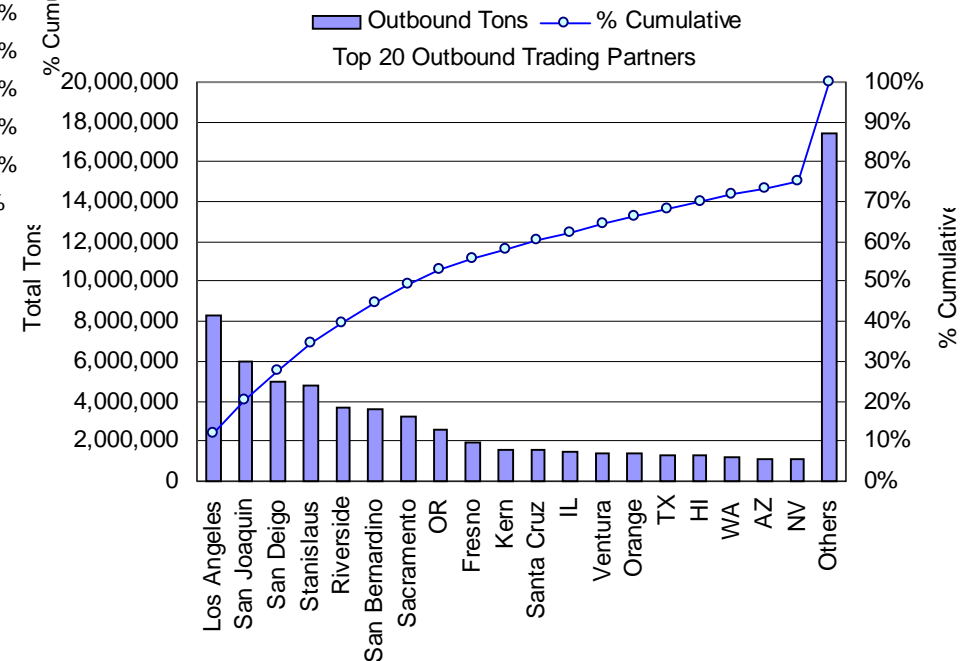
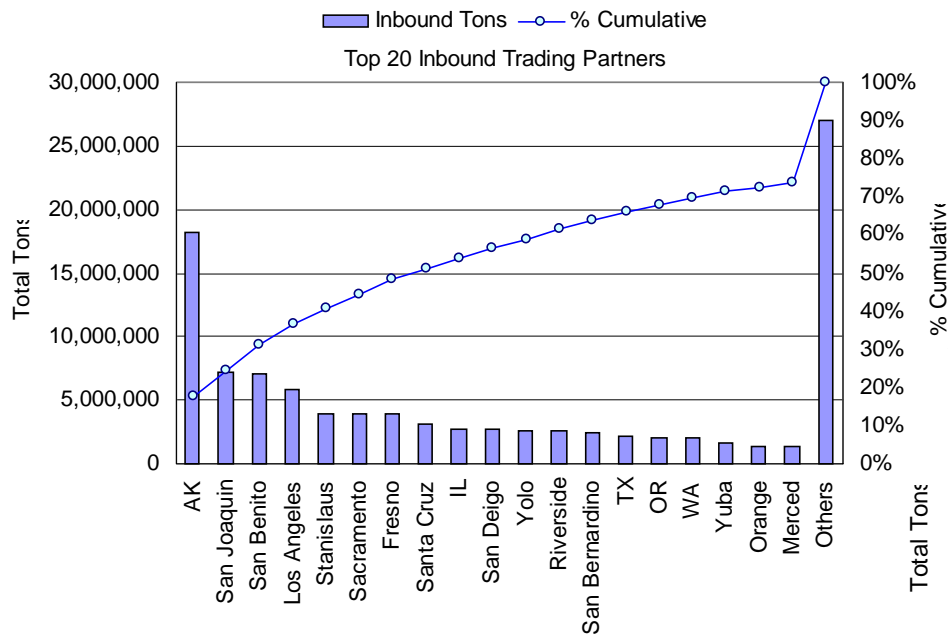
**By VALUE**



■ By Truck ■ By Rail ■ By Air ■ By Water

Source: 1996 ITMS Data

# Top 20 Domestic Origin-Destination for Bay Area Commodity Movements



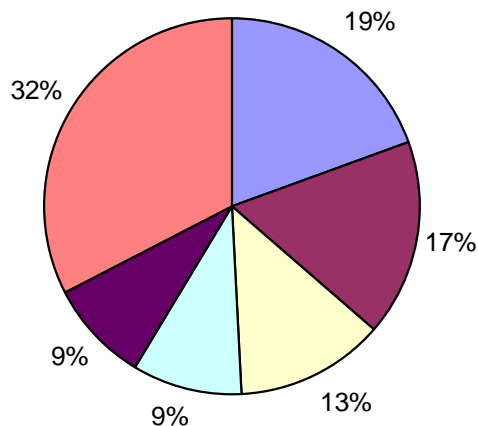
Source: 1996 ITMS Data

# Bay Area Domestic Commodity Flow

## Top 5 Commodities (Internal + Inbound + Outbound)

100% = 322 M Tons

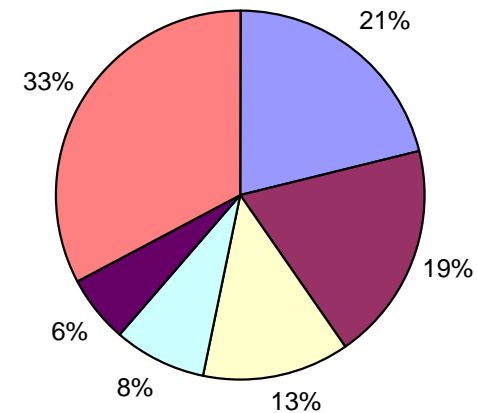
**By TONS**



- Clay, concrete, glass or stone products
- Nonmetallic minerals
- Warehouse & Distribution Center, Rail Intermodal Drayage
- Petroleum or coal products
- Food and kindred products
- Others

100% = \$408 B

**By VALUE**



- Warehouse & Distribution Center, Rail Intermodal Drayage
- Electrical machinery, equipment or supplies
- Machinery excl. electrical
- Food and kindred products
- Transportation equipment
- Others

Source: 1996 ITMS Data

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## ***Commodity Trade in the Bay Area – Regional Trade Patterns***

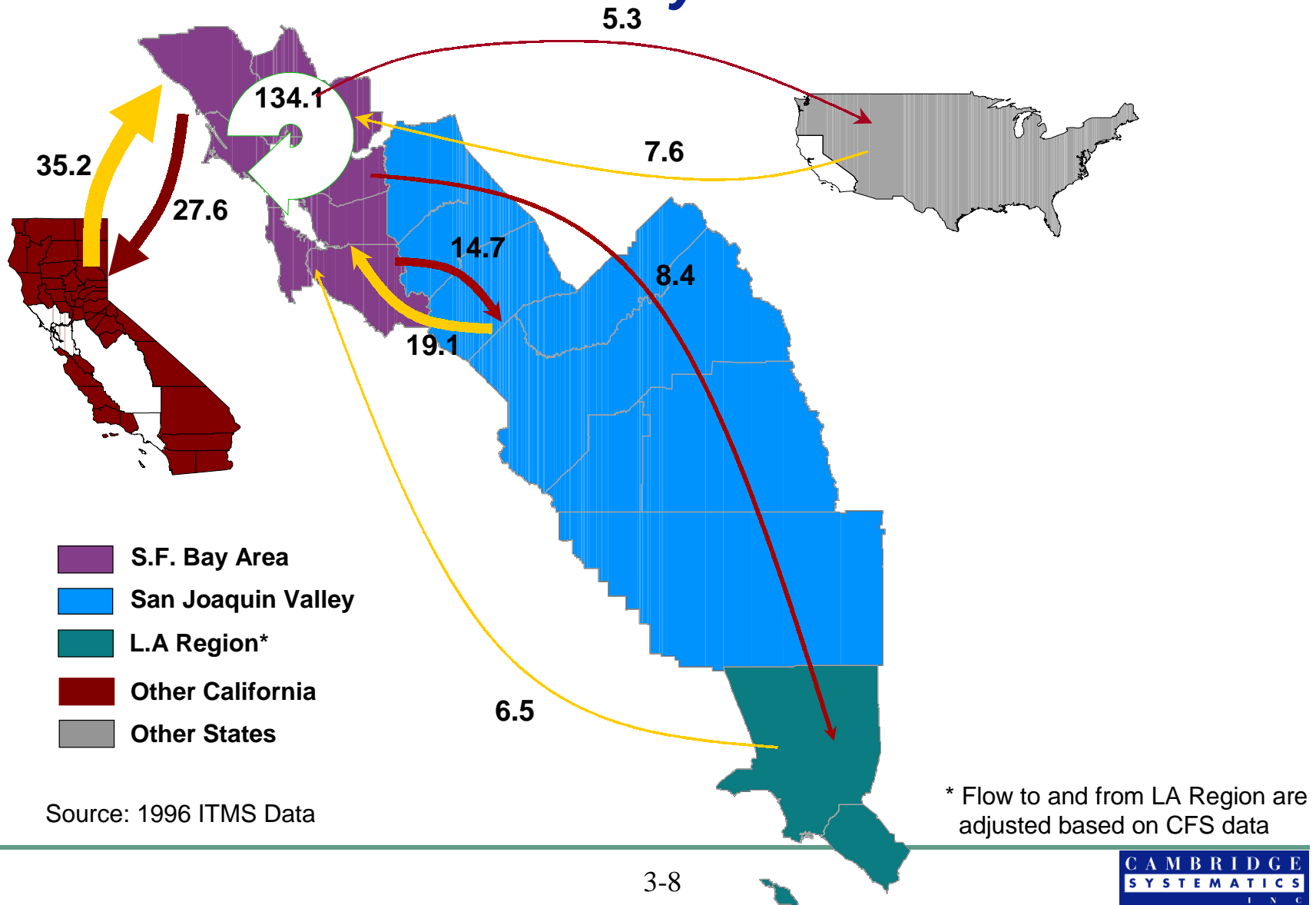
Trade between the Bay Area and particular regions shows a degree of specialization. For example, it is clear from the data that the Bay Area and the San Joaquin Valley (particularly, the northern end of the Valley) are part of the same regional distribution market. By value, 40% of the shipments from the San Joaquin Valley and 49% of the shipments to the Valley are warehouse distribution and drayage moves. There also continues to be a strong relationship between the agricultural and food processing industries in these two regions although this relationship is becoming less significant for goods movement.

The link between the Bay Area and Los Angeles also includes broader regional distribution shipments. However, the manufacturing sectors of Los Angeles that provide consumer products to the Bay Area and the high tech sectors that ship from the Bay Area to Los Angeles are more clearly in evidence in these trade flows.

Trade with the rest of the U.S. tends to emphasize a broader range of inbound manufactured products to meet Bay Area consumer demand and to emphasize the markets for Bay Area manufactured products.

The significance of these more specialized trade relationships is in the types of logistics patterns that serve the needs of these trade flows and the demands this places on the transportation network.

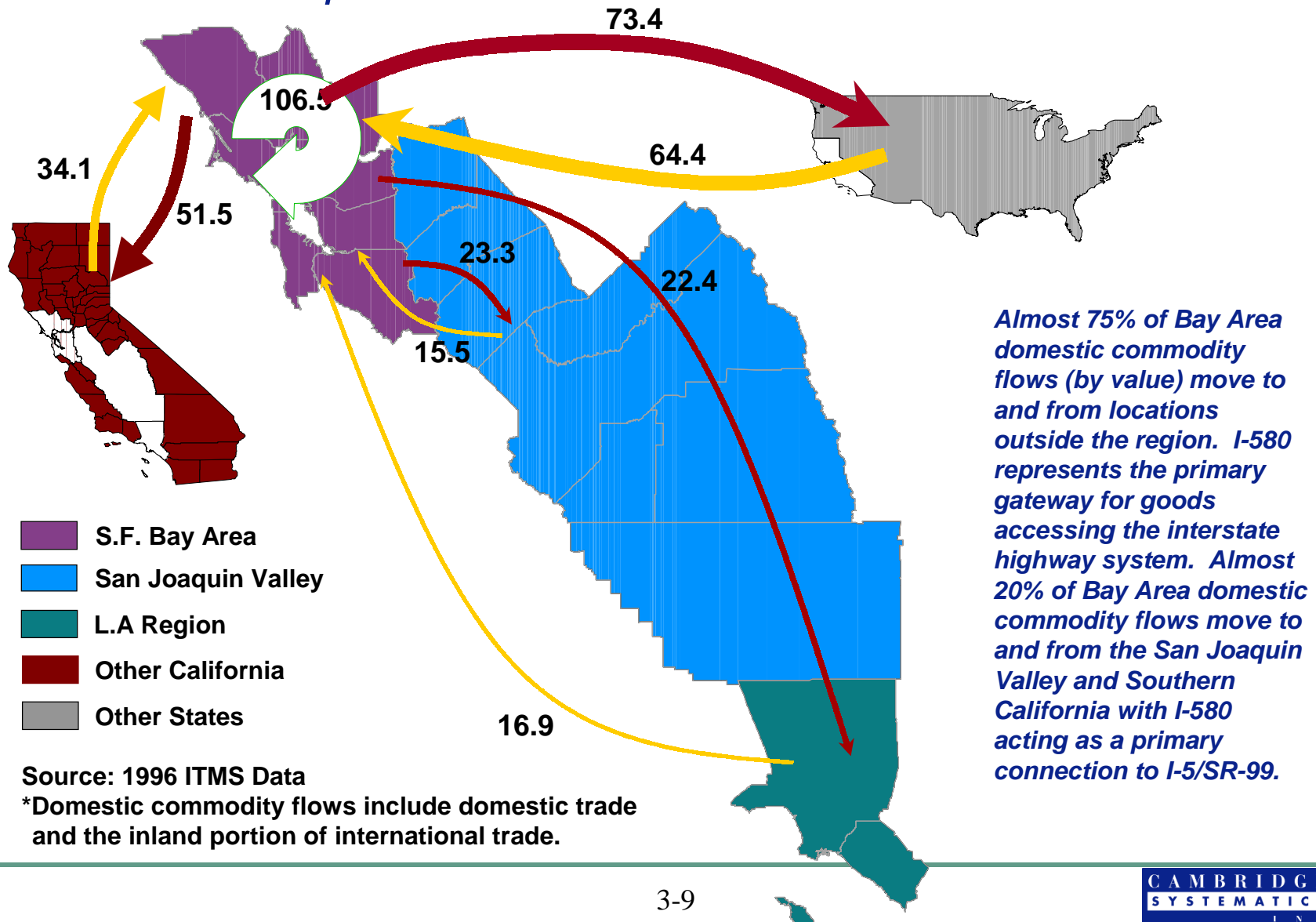
# Most of the Domestic Commodity Flows by Trucks are Internal to Bay Area





# Bay Area Domestic\* Commodity Flows

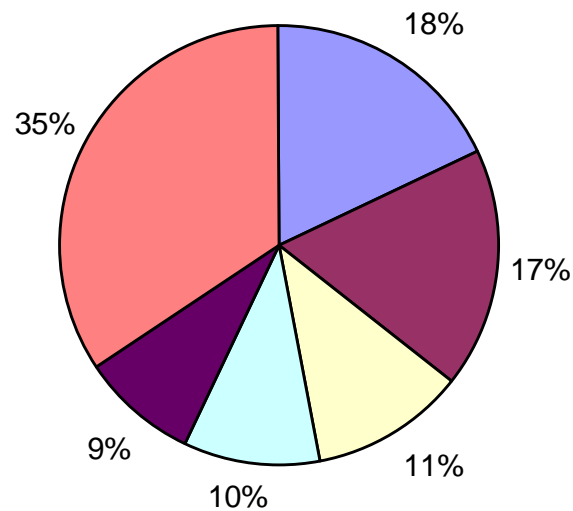
## All Modes = \$408.2 Billions



# Bay Area Domestic Inbound Commodity Flows Top 5 Commodities

100% = 104 M Tons

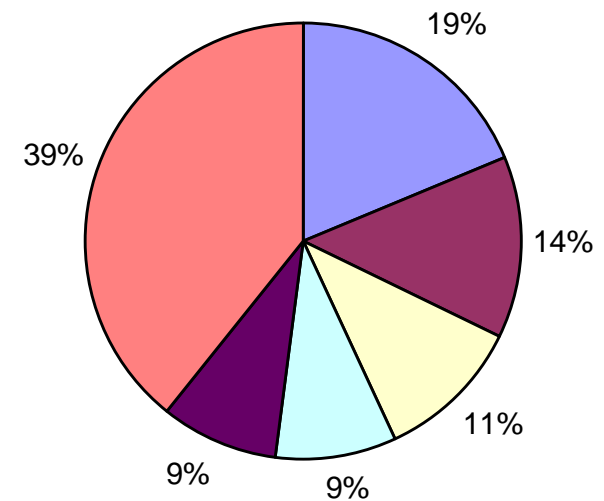
**By TONS**



- Nonmetallic minerals
- Crude Petroleum, natural gas or gasoline
- Warehouse & Distribution Center, Rail Intermodal Drayage
- Food and kindred products
- Clay, concrete, glass or stone products
- Others

100% = \$ 131 B

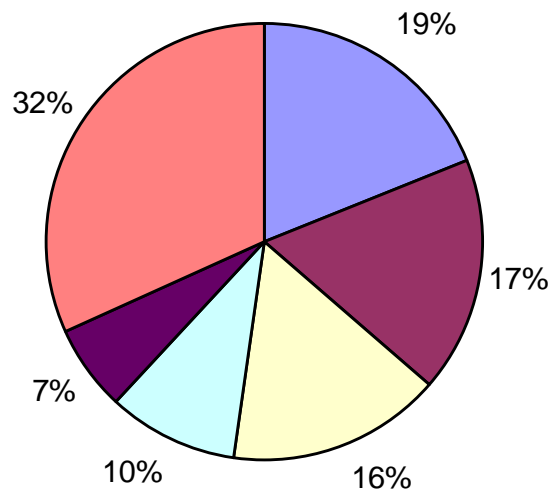
**By VALUE**



- Warehouse & Distribution Center, Rail Intermodal Drayage
- Electrical machinery, equipment or supplies
- Transportation equipment
- Food and kindred products
- Machinery excl. electrical
- Others

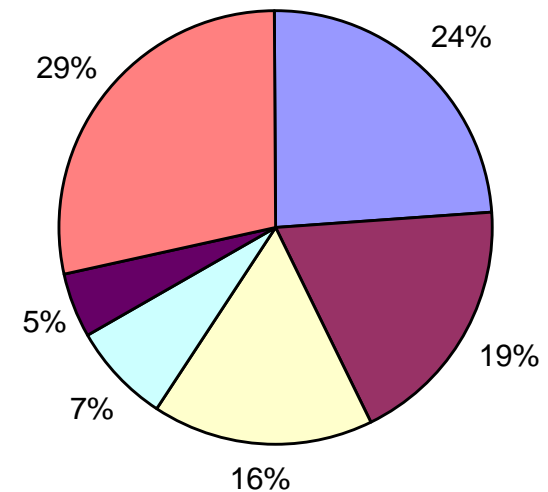
# Bay Area Domestic Outbound Commodity Flows Top 5 Commodities

100% = 70 M Tons  
By TONS



- Warehouse & Distribution Center, Rail Intermodal Drayage
- Petroleum or coal products
- Food and kindred products
- Clay, concrete, glass or stone products
- Nonmetallic minerals
- Others

100% = \$ 171 B  
By VALUE



- Electrical machinery, equipment or supplies
- Machinery excl. electrical
- Warehouse & Distribution Center, Rail Intermodal Drayage
- Food and kindred products
- Transportation equipment
- Others

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## ***Commodity Trade in the Bay Area – Intra-Regional Trade Patterns***

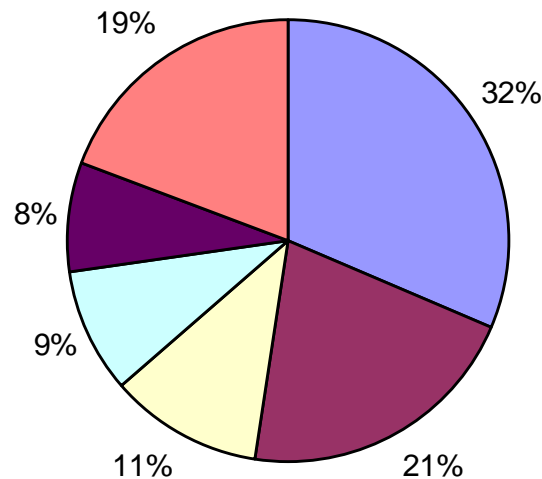
The largest share of commodity trade in the Bay Area occurs by truck and the largest share of this trucking trade occurs intra-regionally. Excluding oil shipments by tanker from Alaska, this pattern is even more pronounced. Looking more carefully at this intra-regional truck movement, it is clear that a major goods movement corridor links Contra Costa, Alameda, and Santa Clara Counties. These counties also show strong trade links with Sacramento and the northern San Joaquin Valley, particularly with San Joaquin County.

The importance of this intra-regional trade pattern is the demand it creates for intra-regional truck corridors. The three corridors of most significance to this trade are clearly the I-880, U.S. 101 and the I-580 corridors and associated connectors. To the extent that the I-580 corridor also provides a major connection between the Bay Area and the I-5 corridor (another major trade route linking the Bay Area with important trading partners on the west coast), these corridors can be thought of as the major goods movement corridors in the region.

# Bay Area Internal Commodity Flows Top 5 Commodities

100% = 149 M Tons

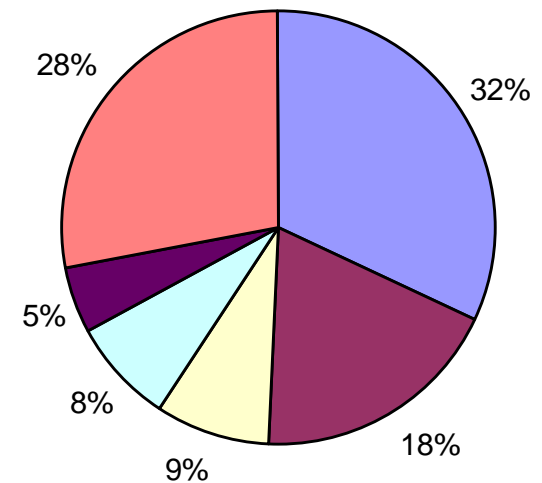
## By TONS



- Clay, concrete, glass or stone products
- Nonmetallic minerals
- Warehouse & Distribution Center, Rail Intermodal Drayage
- Petroleum or coal products
- Waste or scrap materials
- Others

100% = \$ 106.5 B

## By VALUE



- Warehouse & Distribution Center, Rail Intermodal Drayage
- Electrical machinery, equipment or supplies
- Machinery excl. electrical
- Food and kindred products
- Clay, concrete, glass or stone products
- Others

# Freight Flows within Bay Area Counties and San Joaquin County

## O-D Summary of Truck Tons for Bayarea Region + San Joaquin County

Dest / Origin-->	Alameda	Contra Costa	Marin	Napa	San Francisco	San Mateo	Santa Clara	Solano	Sonoma	Joaquin county	Grand Total
Alameda	34,822,067	2,698,190	272,071	234,522	2,226,932	2,301,321	3,321,128	654,106	994,506	1,456,745	48,981,589
Contra Costa	4,096,175	8,422,655	181,451	305,662	796,765	1,263,607	2,224,521	547,479	337,243	1,219,707	19,395,264
Marin	337,302	322,818	3,179,665	42,389	118,533	147,819	112,343	66,235	91,555	93,422	4,512,081
Napa	173,580	194,850	20,358	1,821,590	64,889	118,566	128,770	81,995	197,052	208,294	3,009,945
San Francisco	2,484,329	1,054,024	99,807	191,317	2,597,730	1,036,637	615,749	237,210	229,247	1,051,889	9,597,940
San Mateo	1,553,304	1,168,517	36,781	155,820	292,460	7,667,474	584,693	74,240	123,795	701,355	12,358,438
Santa Clara	3,953,905	1,572,458	82,547	270,226	806,067	1,937,813	15,819,508	446,515	465,335	1,355,308	26,709,682
Solano	1,034,042	808,180	49,141	160,834	150,808	150,398	214,689	1,987,798	126,026	497,340	5,179,257
Sonoma	461,607	194,058	97,711	150,572	200,921	164,049	249,674	557,064	8,804,517	460,237	11,340,412
San Joaquin County	875,093	654,200	89,355	94,112	373,593	717,125	1,073,939	557,775	254,704	13,779,539	18,469,436
Grand Total	49,791,405	17,089,951	4,108,887	3,427,045	7,628,700	15,504,810	24,345,013	5,210,417	11,623,980	20,823,836	159,554,044

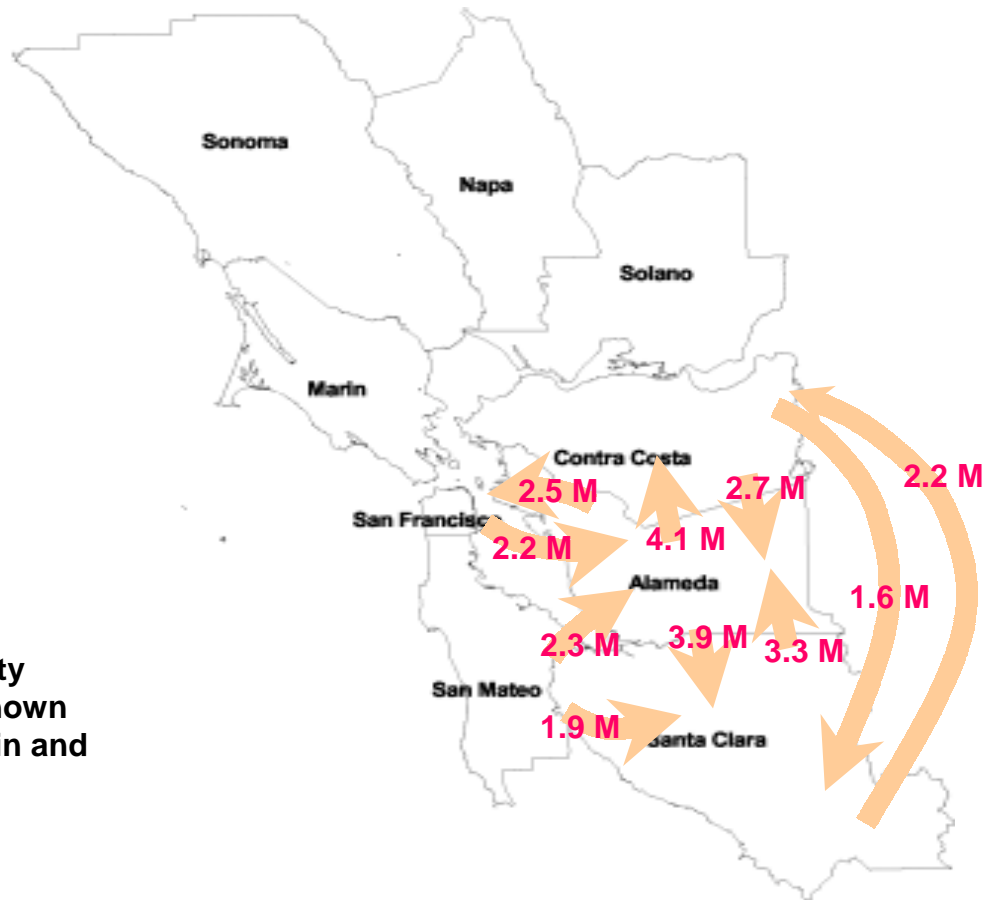
Source: 1996 ITMS Data

# ***Alameda/Santa Clara/Contra Costa Counties Have the Biggest Intercounty and Intracounty Flows***

## **INTRACOUNTY ANNUAL COMMODITY FLOWS**

Napa: 1,821,590 tons  
Solano: 1,987,590 tons  
Marin: 3,179,665 tons  
San Francisco: 2,597,730 tons  
San Mateo: 7,667,474 tons  
Contra Costa: 8,422,655 tons  
Sonoma: 8,804,517 tons  
Santa Clara: 15,819,508 tons  
Alameda: 34,822,067 tons

**NOTE:** Arrows show Top 10 intra-regional, county-to-county commodity flows in millions of tons annually (shown in red text) with arrow tail being origin and head being destination.



Source: 1996 ITMS Data.

**Bayarea Region****Total O-D Freight Flow, Tons**

	By Truck	By Rail	By Air	By Water	Total	% of Tons
Internal	134,045,292	520,620	10	14,364,218	148,930,140	46%
Inbound	68,524,838	13,282,413	286,049	21,573,466	103,666,766	32%
Outbound	56,089,511	6,443,325	395,870	6,914,021	69,842,727	22%
Total	258,659,642	20,246,358	681,929	42,851,705	322,439,634	100%

**Total Inbound Breakdown, Tons**

From	By Truck	By Rail	By Air	By Water	Total	% of Tons
Bay Area Region	-	-	-	-	-	0%
San Joaquin Region	19,170,871	121,184	-	30,361	19,322,416	19%
LA-Orange County Region	6,542,141	44,837	1,223	648,770	7,236,972	7%
Other California	35,221,104	2,064,397	3,085	172,289	37,460,875	36%
Other States	7,590,722	11,051,996	281,741	20,722,046	39,646,504	38%
Total	68,524,838	13,282,413	286,049	21,573,466	103,666,766	100%

**Total Outbound Breakdown, Tons**

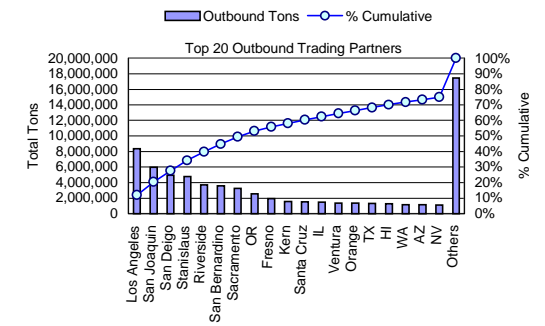
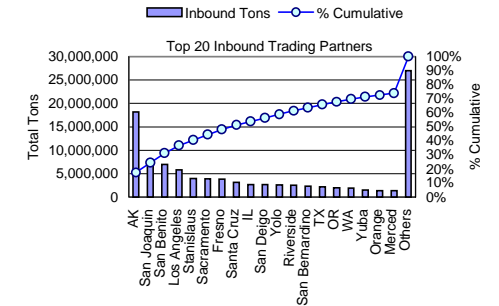
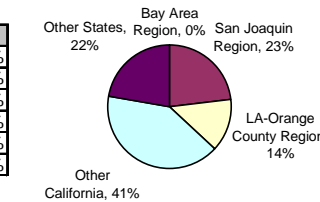
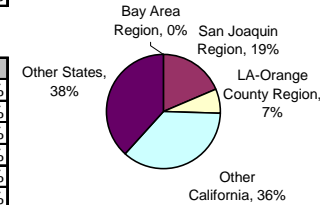
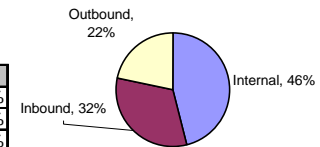
To	By Truck	By Rail	By Air	By Water	Total	% of Tons
Bay Area Region	-	-	-	-	-	0%
San Joaquin Region	14,746,986	159,428	-	1,236,232	16,142,646	23%
LA-Orange County Region	8,399,792	127,581	3,618	1,180,444	9,711,436	14%
Other California	27,664,119	503,560	6,734	257,257	28,431,670	41%
Other States	5,278,613	5,652,755	385,518	4,240,088	15,556,975	22%
Total	56,089,511	6,443,325	395,870	6,914,021	69,842,727	100%

**Total Bay Area Inbound Breakdown, Tons**

From	By Truck	By Rail	By Air	By Water	Total
Alameda	48,921,916	38,721	2	84,252	49,044,890
Contra Costa	16,436,635	437,695	-	953,776	17,828,106
Marin	4,019,733	-	-	-	4,019,733
Napa	3,333,053	-	-	102,759	3,435,812
San Francisco	7,255,446	12,267	2	2,798,902	10,066,616
San Mateo	14,789,112	-	-	934,134	15,723,245
Santa Clara	23,267,214	19,021	7	-	23,286,241
Solano	4,652,675	12,917	-	9,490,395	14,155,986
Sonoma	11,369,511	-	-	-	11,369,511
San Joaquin	7,045,048	54,764	-	30,361	7,130,173

**Total Bay Area Outbound Breakdown, Tons**

To	By Truck	By Rail	By Air	By Water	Total
Alameda	47,526,979	66,752	-	2,169,464	49,763,194
Contra Costa	18,176,026	265,344	-	4,005,990	22,447,361
Marin	4,418,659	-	-	-	4,418,659
Napa	2,801,445	-	-	327,198	3,128,643
San Francisco	8,546,148	-	8	1,261,206	9,807,362
San Mateo	11,657,433	-	-	343,059	12,000,491
Santa Clara	25,357,074	179,732	2	-	25,536,808
Solano	4,681,643	8,792	-	5,498,568	10,189,003
Sonoma	10,879,886	-	-	758,733	11,638,619
San Joaquin	4,687,341	45,738	-	1,236,232	5,969,311

**Top 20 Trading Partners**

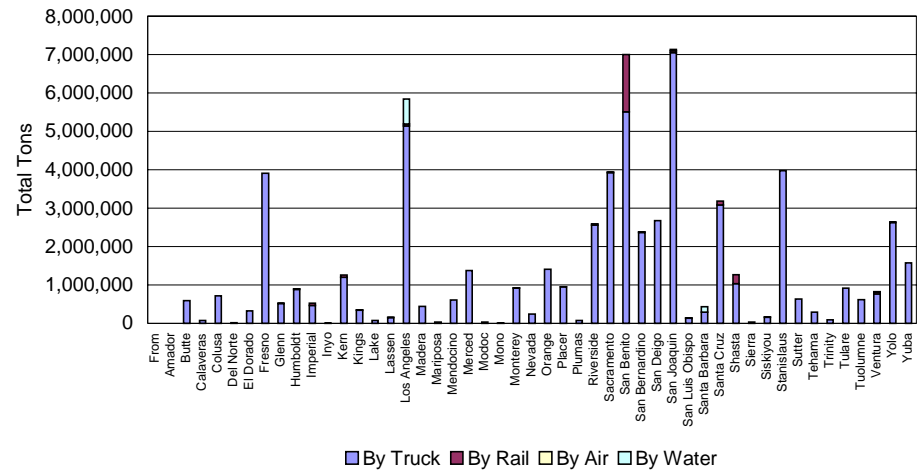
Rank	Inbound	Outbound
1	AK 18,203,900 18%	Los Angeles 8,335,686 12%
2	San Joaquin 7,129,422 24%	San Joaquin 5,971,866 20%
3	San Benito 7,002,285 31%	San Diego 4,946,063 28%
4	Los Angeles 5,831,197 37%	Stanislaus 4,760,628 34%
5	Stanislaus 3,968,519 41%	Riverside 3,682,363 40%
6	Sacramento 3,937,176 44%	San Bernardino 3,567,277 45%
7	Fresno 3,901,106 48%	Sacramento 3,269,388 49%
8	Santa Cruz 3,181,521 51%	OR 2,556,191 53%
9	IL 2,676,739 54%	Fresno 1,948,121 56%
10	San Diego 2,664,215 56%	Kern 1,556,433 58%
11	Yolo 2,639,792 59%	Santa Cruz 1,535,330 60%
12	Riverside 2,584,377 61%	IL 1,481,216 62%
13	San Bernardino 2,378,715 64%	Ventura 1,385,998 64%
14	TX 2,198,618 66%	Orange 1,364,534 66%
15	OR 2,027,106 68%	TX 1,318,610 68%
16	WA 1,983,117 70%	HI 1,281,943 70%
17	Yuba 1,573,718 71%	WA 1,155,151 72%
18	Orange 1,397,727 73%	AZ 1,151,152 73%
19	Merced 1,370,001 74%	NV 1,135,582 75%
20	Others 27,017,516 100%	Others 17,439,194 100%
Total Inbound	103,666,766 100%	Total Outbound 69,842,727 100%

Source: 1996 ITMS Data



## Other California Inbound Breakdown, Tons

From	By Truck	By Rail	By Air	By Water	Total
Amador	321	-	-	-	321
Butte	589,522	-	-	-	589,522
Calaveras	64,235	-	-	-	64,235
Colusa	708,056	-	-	-	708,056
Del Norte	13,637	-	-	-	13,637
El Dorado	325,847	-	-	-	325,847
Fresno	3,900,962	1,200	-	-	3,902,162
Glenn	514,200	3,864	-	-	518,064
Humboldt	883,990	6,848	-	6,773	897,611
Imperial	461,319	63,807	-	-	525,126
Inyo	4,733	-	-	-	4,733
Kern	1,198,051	56,308	-	-	1,254,359
Kings	338,560	6,840	-	-	345,400
Lake	71,618	-	-	-	71,618
Lassen	145,743	7,198	-	-	152,941
Los Angeles	5,142,516	44,837	1,223	648,770	5,837,346
Madera	440,729	-	-	-	440,729
Mariposa	27,797	-	-	-	27,797
Mendocino	608,975	-	-	-	608,975
Merced	1,370,001	-	-	-	1,370,001
Modoc	33,010	-	-	-	33,010
Mono	2,801	-	-	-	2,801
Monterey	910,646	11,310	-	-	921,956
Nevada	232,457	-	-	-	232,457
Orange	1,399,625	-	-	-	1,399,625
Placer	941,632	10,159	-	-	951,791
Plumas	66,396	-	-	-	66,396
Riverside	2,555,392	30,940	-	-	2,586,332
Sacramento	3,922,920	14,540	-	-	3,937,460
San Benito	5,509,297	1,492,988	-	-	7,002,285
San Bernardino	2,365,386	13,181	2,025	-	2,380,592
San Diego	2,665,966	-	834	2,088	2,668,888
San Joaquin	7,045,048	54,764	-	30,361	7,130,173
San Luis Obispo	128,350	10,608	-	-	138,958
Santa Barbara	292,387	-	226	135,879	428,492
Santa Cruz	3,084,180	97,372	-	-	3,181,552
Shasta	1,025,267	242,350	-	-	1,267,617
Sierra	33,446	-	-	-	33,446
Siskiyou	153,751	8,200	-	-	161,951
Stanislaus	3,967,603	2,072	-	-	3,969,675
Sutter	629,273	-	-	-	629,273
Tehama	287,791	-	-	-	287,791
Trinity	90,269	-	-	-	90,269
Tulare	909,917	-	-	-	909,917
Tuolumne	612,264	-	-	-	612,264
Ventura	758,757	51,032	-	8,856	818,645
Yolo	2,621,130	-	-	18,693	2,639,823
Yuba	1,573,718	-	-	-	1,573,718



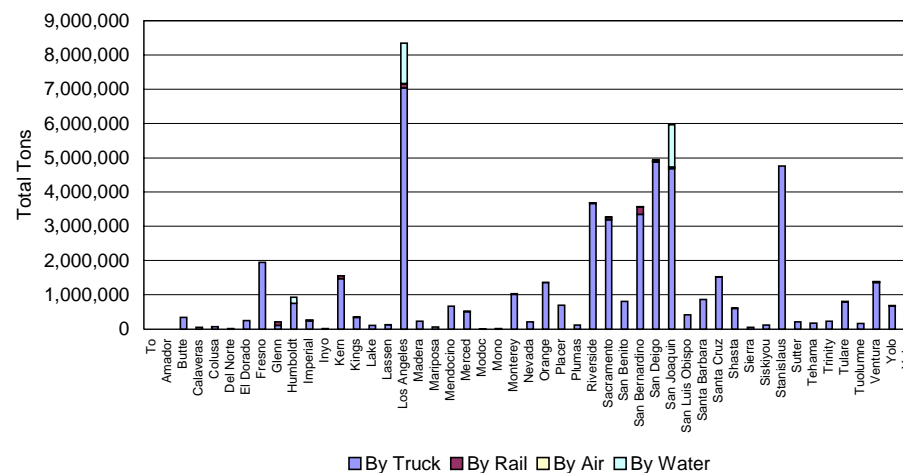
Source: 1996 ITMS Data

# With Whom and What Mode?

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### Other California Outbound Breakdown, Tons

To	By Truck	By Rail	By Air	By Water	Total
Amador	-	-	-	-	-
Butte	336,588	-	-	-	336,588
Calaveras	54,704	-	-	-	54,704
Colusa	78,036	-	-	-	78,036
Del Norte	21,041	-	-	-	21,041
El Dorado	247,677	-	-	-	247,677
Fresno	1,947,303	262	-	-	1,947,565
Glenn	115,033	91,682	-	-	206,715
Humboldt	751,496	-	-	175,249	926,745
Imperial	239,797	28,596	-	-	268,393
Inyo	13,735	-	-	-	13,735
Kern	1,477,711	78,729	-	-	1,556,440
Kings	337,719	14,274	-	-	351,993
Lake	105,799	-	-	-	105,799
Lassen	123,683	8,640	-	-	132,323
Los Angeles	7,039,790	122,646	3,335	1,180,444	8,346,214
Madera	230,774	-	-	-	230,774
Mariposa	64,654	-	-	-	64,654
Mendocino	666,179	-	-	-	666,179
Merced	511,950	9,655	-	-	521,605
Modoc	7,749	-	-	-	7,749
Mono	12,357	-	-	-	12,357
Monterey	1,015,569	13,891	37	1,338	1,030,835
Nevada	208,862	-	1	-	208,863
Orange	1,360,003	4,936	284	-	1,365,222
Placer	700,620	-	-	-	700,620
Plumas	117,027	-	-	-	117,027
Riverside	3,670,263	13,030	11	-	3,683,304
Sacramento	3,190,310	68,960	-	10,271	3,269,541
San Benito	813,899	-	-	-	813,899
San Bernardino	3,353,363	212,145	3,160	-	3,568,668
San Deigo	4,879,251	13,328	3,342	53,597	4,949,518
San Joaquin	4,687,341	45,738	-	1,236,232	5,969,311
San Luis Obispo	414,089	-	-	327	414,416
Santa Barbara	863,344	1,524	182	-	865,050
Santa Cruz	1,520,640	14,466	-	-	1,535,106
Shasta	604,700	10,492	-	-	615,192
Sierra	48,638	-	-	-	48,638
Siskiyou	119,696	-	-	-	119,696
Stanislaus	4,758,893	-	-	-	4,758,893
Sutter	213,812	-	-	-	213,812
Tehama	172,883	-	-	-	172,883
Trinity	225,018	-	-	-	225,018
Tulare	795,296	10,770	-	-	806,066
Tuolumne	161,695	-	-	-	161,695
Ventura	1,359,363	12,376	-	14,357	1,386,096
Yolo	668,471	14,430	1	2,118	685,020
Yuba	381,433	-	-	-	381,433



Source: 1996 ITMS Data

With Whom and What Mode?

3-18

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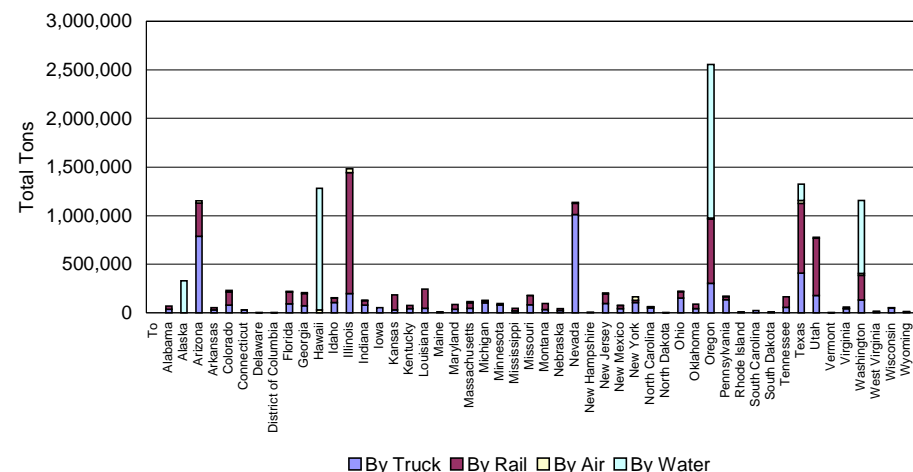
This stacked bar chart illustrates the volume of waste shipped by different modes to various states. The Y-axis measures the number of tons, ranging from 0 to 20,000,000. The X-axis lists the destination states and a 'From' category. The legend identifies four shipping modes: By Truck (blue), By Rail (maroon), By Air (yellow), and By Water (light blue). The 'From' category shows a massive volume of waste shipped by water, exceeding 18 million tons. Among the states, Oregon and Texas show significant volumes of waste shipped by rail, while Washington and Virginia show notable volumes shipped by truck.

Destination	By Truck	By Rail	By Air	By Water
From	0	0	0	18,200,000
Alabama	0	500,000	0	0
Alaska	0	0	0	0
Arizona	800,000	0	0	0
Arkansas	0	0	0	0
Colorado	200,000	0	0	0
Connecticut	0	0	0	0
Delaware	0	0	0	0
District of Columbia	0	0	0	0
Florida	0	0	0	0
Georgia	0	0	0	800,000
Idaho	0	0	0	400,000
Illinois	0	2,800,000	0	0
Indiana	0	500,000	0	0
Iowa	0	400,000	0	0
Kansas	0	400,000	0	0
Kentucky	0	0	0	0
Louisiana	0	0	0	0
Maine	0	0	0	0
Maryland	0	0	0	0
Massachusetts	0	0	0	0
Michigan	0	0	0	0
Minnesota	0	0	0	0
Mississippi	0	0	0	0
Missouri	0	400,000	0	0
Montana	0	0	0	0
Nebraska	0	0	0	0
Nevada	0	800,000	0	0
New Hampshire	0	0	0	0
New Jersey	0	0	0	0
New Mexico	0	0	0	0
New York	0	0	0	0
North Carolina	0	0	0	0
North Dakota	0	0	0	0
Ohio	0	0	0	400,000
Oklahoma	0	0	0	0
Oregon	800,000	1,800,000	0	0
Pennsylvania	0	0	0	0
Rhode Island	0	0	0	0
South Carolina	0	0	0	0
South Dakota	0	0	0	0
Tennessee	0	0	0	0
Texas	0	2,200,000	0	0
Utah	0	0	0	0
Virginia	1,200,000	500,000	0	0
Washington	1,200,000	0	0	0
West Virginia	0	0	0	0
Wisconsin	0	0	0	0
Wyoming	0	0	0	0

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## Other States Outbound Breakdown, Tons

To	By Truck	By Rail	By Air	By Water	Total
Alabama	34,757	32,918	-	-	67,675
Alaska	-	-	575	327,098	327,673
Arizona	787,693	341,999	22,960	-	1,152,652
Arkansas	31,563	21,694	30	-	53,287
Colorado	78,520	135,782	17,136	-	231,438
Connecticut	28,795	2,680	254	-	31,729
Delaware	3,568	-	-	-	3,568
District of Columbia	3,042	-	-	-	3,042
Florida	93,586	119,308	7,545	-	220,439
Georgia	73,399	123,674	10,333	-	207,406
Hawaii	-	-	29,691	1,252,252	1,281,943
Idaho	106,256	45,552	1,877	-	153,685
Illinois	196,713	1,246,294	40,365	-	1,483,372
Indiana	78,466	47,254	2,137	-	127,857
Iowa	52,009	760	271	-	53,040
Kansas	28,832	156,583	-	-	185,415
Kentucky	45,155	30,510	-	-	75,665
Louisiana	46,603	198,309	679	-	245,591
Maine	8,625	-	-	-	8,625
Maryland	37,293	48,268	917	-	86,478
Massachusetts	46,008	57,766	13,405	-	117,179
Michigan	103,917	16,912	6,488	-	127,317
Minnesota	78,841	4,800	10,716	-	94,357
Mississippi	19,022	27,760	-	-	46,782
Missouri	82,452	94,184	2,453	-	179,089
Montana	33,890	62,640	20	-	96,550
Nebraska	20,966	22,940	64	-	43,970
Nevada	1,013,516	112,317	9,749	-	1,135,582
New Hampshire	6,564	-	4	-	6,568
New Jersey	95,303	99,186	8,801	-	203,290
New Mexico	44,437	30,340	1,713	-	76,490
New York	106,354	20,704	38,425	-	165,483
North Carolina	49,391	12,482	2,068	-	63,941
North Dakota	5,452	-	-	-	5,452
Ohio	149,661	68,584	3,124	-	221,369
Oklahoma	44,331	44,747	60	-	89,138
Oregon	301,946	662,259	10,512	1,581,544	2,556,260
Pennsylvania	134,150	30,388	6,703	-	171,241
Rhode Island	9,016	-	-	-	9,016
South Carolina	24,760	252	-	-	25,012
South Dakota	7,751	-	-	-	7,751
Tennessee	55,783	106,370	1,797	-	163,950
Texas	407,372	718,599	31,007	167,174	1,324,151
Utah	175,664	593,004	9,080	-	777,748
Vermont	4,129	-	-	-	4,129
Virginia	43,258	3,036	13,822	-	60,116
Washington	129,747	254,083	20,053	751,517	1,155,400
West Virginia	11,781	6,874	-	-	18,655
Wisconsin	50,688	2,400	415	-	53,503
Wyoming	9,707	3,930	-	-	13,637



Source: 1996 ITMS Data

# With Whom and What Mode?

3-20

## Internal + Inbound + Outbound Tons and Value by Commodity Class

2 Digit STCC Code Description	Truck Tons	Rail Tons	Air Tons	Water Tons	Total Tons	Value (\$ M)	% Tons	% Value
Farm Products	16,350,618	705,421	24,223	34,697	17,114,959	\$ 10,980	5.3%	2.7%
Forest Products	564,930	818	7	-	565,755	\$ 504	0.2%	0.1%
Fresh fish or other marine products	-	1,561	16,975	3,516	22,053	\$ 20	0.0%	0.0%
Metallic Ores	25	161,050	-	-	161,075	\$ 2,832	0.0%	0.7%
Coal	476	85,938	-	-	86,414	\$ 2	0.0%	0.0%
Crude Petroleum, natural gas or gasoline	-	69,159	-	25,460,456	25,529,615	\$ 4,025	7.9%	1.0%
Nonmetallic minerals	46,673,393	1,630,349	-	6,445,540	54,749,282	\$ 870	17.0%	0.2%
Ordinance or accessories	219	51,389	-	-	51,608	\$ 2,817	0.0%	0.7%
Food and kindred products	27,013,550	1,874,860	5,366	8,884	28,902,659	\$ 32,793	9.0%	8.0%
Tobacco products, excluding insecticides	54	-	-	-	54	\$ 1	0.0%	0.0%
Textile mill products	46,434	5,006	3,490	10,578	65,507	\$ 297	0.0%	0.1%
Apparel or other finished textile products	420,848	20,136	14,985	58,610	514,578	\$ 12,418	0.2%	3.0%
Lumber or wood products, excluding furniture	9,977,062	494,901	711	38,335	10,511,009	\$ 3,827	3.3%	0.9%
Furniture or fixtures	203,289	19,483	2,509	33,785	259,066	\$ 1,193	0.1%	0.3%
Pulp, paper or allied products	2,169,447	1,115,198	11,371	1,124	3,297,141	\$ 3,767	1.0%	0.9%
Printed matter	946,336	51,867	18,837	20,120	1,037,160	\$ 3,459	0.3%	0.8%
Chemicals or allied products	6,274,828	1,176,125	62,735	362,155	7,875,843	\$ 12,785	2.4%	3.1%
Petroleum or coal products	20,958,526	1,652,440	3,233	7,796,918	30,411,117	\$ 6,614	9.4%	1.6%
Rubber or miscellaneous plastic products	1,369,038	79,679	8,236	12,138	1,469,091	\$ 6,009	0.5%	1.5%
Leather or leather products	41,231	1,752	1,558	-	44,540	\$ 781	0.0%	0.2%
Clay, concrete, glass or stone products	61,774,377	802,721	3,801	184	62,581,082	\$ 7,096	19.4%	1.7%
Primary metal products	3,354,284	2,429,951	1,333	2,164	5,787,732	\$ 7,392	1.8%	1.8%
Fabricated metal products	1,777,790	42,937	16,870	-	1,837,597	\$ 6,685	0.6%	1.6%
Machinery excl. electrical	1,500,557	32,901	156,288	88,682	1,778,428	\$ 53,451	0.6%	13.1%
Electrical machinery, equipment or supplies	2,283,910	74,324	77,990	14,295	2,450,518	\$ 78,120	0.8%	19.1%
Transportation equipment	822,196	1,526,222	31,804	95,710	2,475,932	\$ 23,584	0.8%	5.8%
Instruments, photographic goods, optical goods, watches, or clocks	296,010	36	17,015	10,611	323,672	\$ 14,106	0.1%	3.5%
Miscellaneous products of manufacturing	609,900	195,948	11,333	31,709	848,889	\$ 6,662	0.3%	1.6%
Waste or scrap materials	11,997,402	777,228	5,880	2,063,533	14,844,043	\$ 2,646	4.6%	0.6%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	5,166,958	185,381	257,962	5,610,301	\$ 16,363	1.7%	4.0%
Warehouse & Distribution Center, Rail Intermodal Drayage	41,232,911	-	-	-	41,232,911	\$ 86,158	12.8%	21.1%
Total	258,659,642	20,246,358	681,929	42,851,705	322,439,634	\$ 408,257	100%	100%

## Internal Tons by Commodity Class

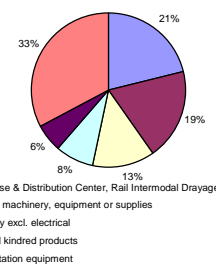
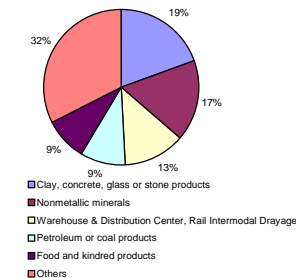
2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	6,672,682	-	-	25,191	6,697,873	\$ 4,297	4%	4.0%
Forest Products	121,843	-	-	-	121,843	\$ 108	0%	0.1%
Fresh fish or other marine products	-	-	-	1,249	1,249	\$ 1	0%	0.0%
Metallic Ores	-	137,837	-	-	137,837	\$ 2,423	0%	2.3%
Coal	-	-	-	-	-	\$ -	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	7,031,436	7,031,436	\$ 1,109	5%	1.0%
Nonmetallic minerals	26,465,016	-	-	4,947,672	31,412,688	\$ 499	21%	0.5%
Ordinance or accessories	-	-	-	-	-	\$ -	0%	0.0%
Food and kindred products	7,344,509	17,607	-	5,936	7,368,053	\$ 8,360	5%	7.8%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	2,594	-	-	617	3,211	\$ 15	0%	0.0%
Apparel or other finished textile products	112,354	-	-	512	112,866	\$ 2,724	0%	2.6%
Lumber or wood products, excluding furniture	1,331,545	-	-	2,911	1,334,456	\$ 486	1%	0.5%
Furniture or fixtures	24,163	-	-	-	24,163	\$ 111	0%	0.1%
Pulp, paper or allied products	530,558	61,718	-	-	592,276	\$ 677	0%	0.6%
Printed matter	250,057	-	-	220	250,276	\$ 835	0%	0.8%
Chemicals or allied products	1,972,873	44,181	-	2,115	2,019,169	\$ 3,278	1%	3.1%
Petroleum or coal products	11,438,729	80,701	-	2,337,289	13,856,719	\$ 3,014	9%	2.8%
Rubber or miscellaneous plastic products	257,741	-	-	200	257,941	\$ 1,055	0%	1.0%
Leather or leather products	11	-	-	-	11	\$ 0	0%	0.0%
Clay, concrete, glass or stone products	46,921,996	-	-	-	46,921,996	\$ 5,320	32%	5.0%
Primary metal products	835,987	88,330	-	1,758	926,075	\$ 1,183	1%	1.1%
Fabricated metal products	441,784	-	-	-	441,784	\$ 1,607	0%	1.5%
Machinery excl. electrical	305,704	-	3	231	305,939	\$ 9,195	0%	8.6%
Electrical machinery, equipment or supplies	615,191	-	-	215	615,406	\$ 19,619	0%	18.4%
Transportation equipment	119,361	6,887	-	318	126,566	\$ 1,206	0%	1.1%
Instruments, photographic goods, optical goods, watches, or clocks	49,361	-	-	425	49,785	\$ 2,170	0%	2.0%
Miscellaneous products of manufacturing	124,711	-	-	1,028	125,739	\$ 987	0%	0.9%
Waste or scrap materials	11,767,727	83,359	-	459	11,851,545	\$ 2,113	8%	2.0%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	-	7	4,437	4,444	\$ 13	0%	0.0%
Warehouse & Distribution Center, Rail Intermodal Drayage	16,338,795	-	-	-	16,338,795	\$ 34,140	11%	32.0%
Total	134,045,292	520,620	10	14,364,218	148,930,140	\$ 106,543	100%	100%

## TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Clay, concrete, glass or stone products	19%
Nonmetallic minerals	17%
Warehouse & Distribution Center, Rail Intermodal Drayage	13%
Petroleum or coal products	9%
Food and kindred products	9%
Others	32%

## TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	21%
Electrical machinery, equipment or supplies	19%
Machinery excl. electrical	13%
Food and kindred products	8%
Transportation equipment	6%
Others	33%

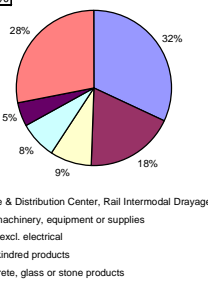
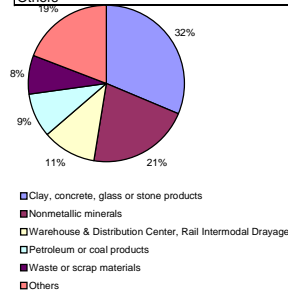


## TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Clay, concrete, glass or stone products	32%
Nonmetallic minerals	21%
Warehouse & Distribution Center, Rail Intermodal Drayage	11%
Petroleum or coal products	9%
Waste or scrap materials	8%
Others	19%

## TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	32%
Electrical machinery, equipment or supplies	18%
Machinery excl. electrical	9%
Food and kindred products	8%
Clay, concrete, glass or stone products	5%
Others	28%



Source: 1996 ITMS Data

## What Commodities ?

## Inbound Tons by Commodity Class

2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	6,278,347	484,095	2,602	6,604	6,771,648	\$ 4,344	7%	3.3%
Forest Products	317,862	800	-	-	318,662	\$ 284	0%	0.2%
Fresh fish or other marine products	-	193	2,530	332	3,055	\$ 3	0%	0.0%
Metallic Ores	25	8,866	-	-	8,891	\$ 156	0%	0.1%
Coal	371	85,938	-	-	86,309	\$ 2	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	69,159	-	18,039,592	18,108,751	\$ 2,855	17%	2.2%
Nonmetallic minerals	16,905,012	1,630,349	-	260,527	18,795,888	\$ 299	18%	0.2%
Ordinance or accessories	101	11,469	-	-	11,570	\$ 632	0%	0.5%
Food and kindred products	9,337,606	1,026,170	2,886	1,548	10,368,210	\$ 11,764	10%	9.0%
Tobacco products, excluding insecticides	54	-	-	-	54	\$ 1	0%	0.0%
Textile mill products	31,343	3,432	1,927	957	37,660	\$ 171	0%	0.1%
Apparel or other finished textile products	95,004	12,590	5,807	5,566	118,966	\$ 2,871	0%	2.2%
Lumber or wood products, excluding furniture	6,192,639	432,154	461	34,921	6,660,175	\$ 2,425	6%	1.9%
Furniture or fixtures	122,908	16,670	1,965	3,272	144,815	\$ 667	0%	0.5%
Pulp, paper or allied products	912,637	853,228	4,812	976	1,771,652	\$ 2,024	2%	1.5%
Printed matter	311,821	51,067	13,853	2,004	378,745	\$ 1,263	0%	1.0%
Chemicals or allied products	1,711,161	739,106	17,948	330,480	2,798,695	\$ 4,543	3%	3.5%
Petroleum or coal products	2,044,877	532,824	340	1,877,340	4,455,382	\$ 969	4%	0.7%
Rubber or miscellaneous plastic products	680,618	55,395	3,098	1,152	740,263	\$ 3,028	1%	2.3%
Leather or leather products	15,633	1,246	540	-	17,420	\$ 305	0%	0.2%
Clay, concrete, glass or stone products	8,345,596	606,138	1,217	-	8,952,951	\$ 1,015	9%	0.8%
Primary metal products	1,509,599	1,822,032	298	8	3,331,937	\$ 4,256	3%	3.2%
Fabricated metal products	522,373	39,700	12,878	-	574,951	\$ 2,092	1%	1.6%
Machinery excl. electrical	326,886	16,849	37,846	8,443	390,024	\$ 11,722	0%	9.0%
Electrical machinery, equipment or supplies	485,931	39,577	31,132	1,401	558,041	\$ 17,790	1%	13.6%
Transportation equipment	451,584	1,002,262	28,173	9,026	1,491,044	\$ 14,203	1%	10.8%
Instruments, photographic goods, optical goods, wathoes, or clocks	82,074	-	9,000	971	92,045	\$ 4,011	0%	3.1%
Miscellaneous products of manufacturing	192,230	90,338	6,506	20,534	309,608	\$ 2,430	0%	1.9%
Waste or scrap materials	9,797	225,054	18	967,339	1,202,209	\$ 214	1%	0.2%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	3,425,710	100,214	473	3,526,397	\$ 10,285	3%	7.9%
Warehouse & Distribution Center, Rail Intermodal Drayage	11,640,748	-	-	-	11,640,748	\$ 24,324	11%	18.6%
Total	68,524,838	13,282,413	286,049	21,573,466	103,666,766	\$ 130,946	100%	100%

## Outbound Tons by Commodity Class

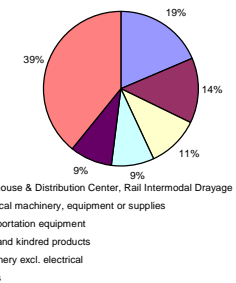
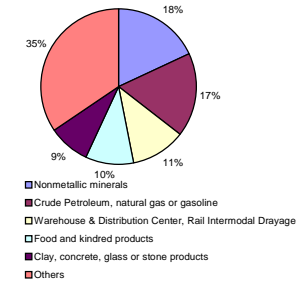
2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	3,399,588	221,326	21,621	2,902	3,645,438	\$ 2,339	5%	1.4%
Forest Products	125,225	18	7	-	125,250	\$ 111	0%	0.1%
Fresh fish or other marine products	-	1,368	14,446	1,934	17,748	\$ 16	0%	0.0%
Metallic Ores	-	14,347	-	-	14,347	\$ 252	0%	0.1%
Coal	105	-	-	-	105	\$ 0	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	389,428	389,428	\$ 61	1%	0.0%
Nonmetallic minerals	3,303,366	-	-	1,237,341	4,540,707	\$ 72	7%	0.0%
Ordinance or accessories	118	39,920	-	-	40,038	\$ 2,186	0%	1.3%
Food and kindred products	10,331,435	831,082	2,480	1,400	11,166,397	\$ 12,670	16%	7.4%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	12,496	1,574	1,562	9,004	24,637	\$ 112	0%	0.1%
Apparel or other finished textile products	213,490	7,546	9,178	52,532	282,746	\$ 6,823	0%	4.0%
Lumber or wood products, excluding furniture	2,452,877	62,747	250	503	2,516,377	\$ 916	4%	0.5%
Furniture or fixtures	56,218	2,813	544	30,513	90,088	\$ 415	0%	0.2%
Pulp, paper or allied products	726,251	200,253	6,559	149	933,213	\$ 1,066	1%	0.6%
Printed matter	384,458	800	4,984	17,896	408,138	\$ 1,361	1%	0.8%
Chemicals or allied products	2,590,794	392,838	44,787	29,561	3,057,980	\$ 4,964	4%	2.9%
Petroleum or coal products	7,474,920	1,038,915	2,893	3,582,289	12,099,016	\$ 2,632	17%	1.5%
Rubber or miscellaneous plastic products	430,680	24,284	5,138	10,786	470,888	\$ 1,926	1%	1.1%
Leather or leather products	25,586	506	1,017	-	27,109	\$ 475	0%	0.3%
Clay, concrete, glass or stone products	6,506,784	196,583	2,584	184	6,706,135	\$ 760	10%	0.4%
Primary metal products	1,008,698	519,588	1,035	398	1,529,720	\$ 1,954	2%	1.1%
Fabricated metal products	813,633	3,237	3,992	-	820,862	\$ 2,986	1%	1.7%
Machinery excl. electrical	867,967	16,052	118,439	80,008	1,082,466	\$ 32,534	2%	19.1%
Electrical machinery, equipment or supplies	1,182,787	34,747	46,858	12,679	1,277,071	\$ 40,712	2%	23.8%
Transportation equipment	251,252	517,073	3,631	86,366	858,322	\$ 8,176	1%	4.8%
Instruments, photographic goods, optical goods, wathoes, or clocks	164,575	36	8,015	9,215	181,842	\$ 7,925	0%	4.6%
Miscellaneous products of manufacturing	292,959	105,609	4,827	10,146	413,542	\$ 3,246	1%	1.9%
Waste or scrap materials	219,878	468,815	5,862	1,095,735	1,790,290	\$ 319	3%	0.2%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	1,741,247	85,161	253,052	2,079,460	\$ 6,065	3%	3.6%
Warehouse & Distribution Center, Rail Intermodal Drayage	13,253,369	-	-	-	13,253,369	\$ 27,693	19%	16.2%
Total	56,089,511	6,443,325	395,870	6,914,021	69,842,727	\$ 170,767	100%	100%

## TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Nonmetallic minerals	18%
Crude Petroleum, natural gas or gasoline	17%
Warehouse & Distribution Center, Rail Intermodal Drayage	11%
Food and kindred products	10%
Clay, concrete, glass or stone products	9%
Others	35%

## TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	19%
Electrical machinery, equipment or supplies	14%
Transportation equipment	11%
Food and kindred products	9%
Machinery excl. electrical	9%
Others	39%

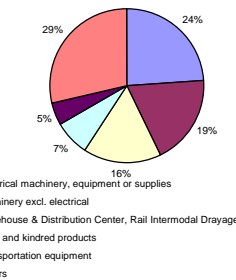
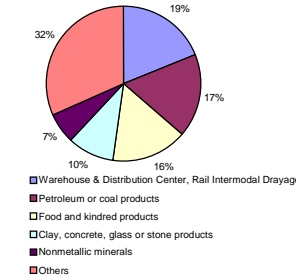


## TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	19%
Petroleum or coal products	17%
Food and kindred products	16%
Clay, concrete, glass or stone products	10%
Nonmetallic minerals	7%
Others	32%

## TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Electrical machinery, equipment or supplies	24%
Machinery excl. electrical	19%
Warehouse & Distribution Center, Rail Intermodal Drayage	16%
Food and kindred products	7%
Transportation equipment	5%
Others	29%



Source: 1996 ITMS Data

# What Commodities ?

### From San Joaquin Region, Inbound, Tons by Commodity Class

2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	4,255,069	25,080	-	-	4,280,149	\$ 2,746	22%	17.7%
Forest Products	210	-	-	-	210	\$ 0	0%	0.0%
Fresh fish or other marine products	-	-	-	-	-	\$ -	0%	0.0%
Metallic Ores	-	-	-	-	-	\$ -	0%	0.0%
Coal	-	-	-	-	-	\$ -	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	-	-	\$ -	0%	0.0%
Nonmetallic minerals	2,649,196	-	-	24,380	2,673,576	\$ 42	14%	0.3%
Ordinance or accessories	-	-	-	-	-	\$ -	0%	0.0%
Food and kindred products	3,516,105	7,724	-	-	3,523,829	\$ 3,998	18%	25.8%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	1,223	-	-	-	1,223	\$ 6	0%	0.0%
Apparel or other finished textile products	1,269	-	-	-	1,269	\$ 31	0%	0.2%
Lumber or wood products, excluding furniture	698,520	-	-	-	698,520	\$ 254	4%	1.6%
Furniture or fixtures	6,461	-	-	-	6,461	\$ 30	0%	0.2%
Pulp, paper or allied products	83,116	-	-	-	83,116	\$ 95	0%	0.6%
Printed matter	22,946	-	-	-	22,946	\$ 77	0%	0.5%
Chemicals or allied products	73,061	11,622	-	1,299	85,981	\$ 140	0%	0.9%
Petroleum or coal products	579,403	48,486	-	4,397	632,287	\$ 138	3%	0.9%
Rubber or miscellaneous plastic products	34,865	-	-	-	34,865	\$ 143	0%	0.9%
Leather or leather products	2	-	-	-	2	\$ 0	0%	0.0%
Clay, concrete, glass or stone products	4,096,485	-	-	-	4,096,485	\$ 464	21%	3.0%
Primary metal products	118,590	-	-	8	118,598	\$ 151	1%	1.0%
Fabricated metal products	33,409	-	-	-	33,409	\$ 122	0%	0.8%
Machinery excl. electrical	12,185	-	-	-	12,185	\$ 366	0%	2.4%
Electrical machinery, equipment or supplies	7,179	-	-	-	7,179	\$ 229	0%	1.5%
Transportation equipment	12,234	-	-	-	12,234	\$ 117	0%	0.8%
Instruments, photographic goods, optical goods, watches, or clocks	477	-	-	-	477	\$ 21	0%	0.1%
Miscellaneous products of manufacturing	6,964	-	-	274	7,238	\$ 57	0%	0.4%
Waste or scrap materials	2,685	3,272	-	3	5,960	\$ 1	0%	0.0%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	25,000	-	-	25,000	\$ 73	0%	0.5%
Warehouse & Distribution Center, Rail Intermodal Drayage	2,959,216	-	-	-	2,959,216	\$ 6,183	15%	39.9%
Total	19,170,871	121,184	-	30,361	19,322,416	\$ 15,482	100%	100%

### To San Joaquin Region, Outbound, Tons by Commodity Class

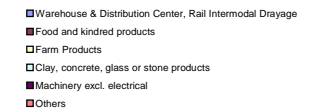
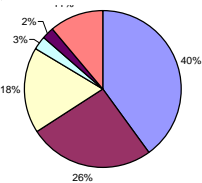
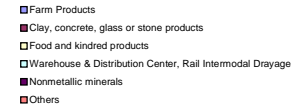
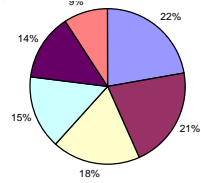
2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	2,834,791	3,758	-	-	2,838,549	\$ 1,821	18%	7.8%
Forest Products	-	-	-	-	-	\$ -	0%	0.0%
Fresh fish or other marine products	-	-	-	-	-	\$ -	0%	0.0%
Metallic Ores	-	-	-	-	-	\$ -	0%	0.0%
Coal	-	-	-	-	-	\$ -	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	-	-	\$ -	0%	0.0%
Nonmetallic minerals	564,777	-	-	1,167,453	1,732,230	\$ 28	11%	0.1%
Ordinance or accessories	-	-	-	-	-	\$ -	0%	0.0%
Food and kindred products	2,035,199	26,912	-	-	2,062,111	\$ 2,340	13%	10.0%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	121	-	-	-	121	\$ 1	0%	0.0%
Apparel or other finished textile products	22,424	-	-	570	22,994	\$ 555	0%	2.4%
Lumber or wood products, excluding furniture	362,080	2,968	-	-	365,048	\$ 133	2%	0.6%
Furniture or fixtures	4,764	-	-	398	5,162	\$ 24	0%	0.1%
Pulp, paper or allied products	128,891	11,386	-	-	140,277	\$ 160	1%	0.7%
Printed matter	47,045	-	-	232	47,277	\$ 158	0%	0.7%
Chemicals or allied products	333,928	23,016	-	6,691	363,635	\$ 590	2%	2.5%
Petroleum or coal products	1,850,259	46,049	-	56,981	1,953,289	\$ 425	12%	1.8%
Rubber or miscellaneous plastic products	32,576	-	-	-	32,576	\$ 133	0%	0.6%
Leather or leather products	-	-	-	-	-	\$ -	0%	0.0%
Clay, concrete, glass or stone products	697,430	3,324	-	-	700,754	\$ 79	4%	0.3%
Primary metal products	75,074	7,012	-	398	82,484	\$ 105	1%	0.5%
Fabricated metal products	69,317	-	-	-	69,317	\$ 252	0%	1.1%
Machinery excl. electrical	48,502	-	-	1,036	49,538	\$ 1,489	0%	6.4%
Electrical machinery, equipment or supplies	83,319	-	-	156	83,475	\$ 2,661	1%	11.4%
Transportation equipment	29,722	1,600	-	1,056	32,378	\$ 308	0%	1.3%
Instruments, photographic goods, optical goods, watches, or clocks	9,246	-	-	-	9,246	\$ 403	0%	1.7%
Miscellaneous products of manufacturing	18,463	-	-	1,151	19,614	\$ 154	0%	0.7%
Waste or scrap materials	1,679	27,583	-	109	29,371	\$ 5	0%	0.0%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	5,820	-	-	5,820	\$ 17	0%	0.1%
Warehouse & Distribution Center, Rail Intermodal Drayage	5,497,380	-	-	-	5,497,380	\$ 11,487	34%	49.2%
Total	14,746,986	159,428	-	1,236,232	16,142,646	\$ 23,328	100%	100%

### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Farm Products	22%
Clay, concrete, glass or stone products	21%
Food and kindred products	18%
Warehouse & Distribution Center, Rail Intermodal Drayage	15%
Nonmetallic minerals	14%
Others	9%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	40%
Food and kindred products	26%
Farm Products	18%
Clay, concrete, glass or stone products	3%
Machinery excl. electrical	2%
Others	11%

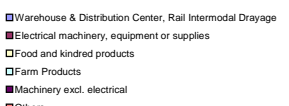
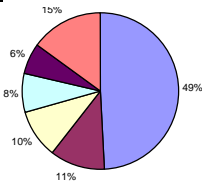
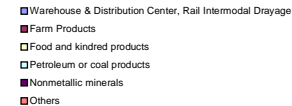
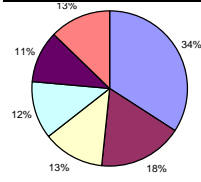


### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	34%
Farm Products	18%
Food and kindred products	13%
Petroleum or coal products	12%
Nonmetallic minerals	11%
Others	13%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	49%
Electrical machinery, equipment or supplies	11%
Food and kindred products	10%
Farm Products	8%
Machinery excl. electrical	6%
Others	15%



Source: 1996 ITMS Data

# What Commodities ?



### From LA-Orange County Region, Inbound, Tons by Commodity Class

2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	3,195	-	4	6,593	9,793	\$ 6	0%	0.0%
Forest Products	-	-	-	-	-	\$ -	0%	0.0%
Fresh fish or other marine products	-	193	33	332	558	\$ 0	0%	0.0%
Metallic Ores	-	-	-	-	-	\$ -	0%	0.0%
Coal	-	-	-	-	-	\$ -	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	37,058	37,058	\$ 6	1%	0.0%
Nonmetallic minerals	-	-	-	282	282	\$ 0	0%	0.0%
Ordinance or accessories	-	-	-	-	-	\$ -	0%	0.0%
Food and kindred products	1,007,355	572	58	1,548	1,009,533	\$ 1,145	14%	6.7%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	11,656	-	17	-	11,674	\$ 53	0%	0.3%
Apparel or other finished textile products	60,395	-	48	-	60,442	\$ 1,459	1%	8.6%
Lumber or wood products, excluding furniture	360,402	-	1	-	360,403	\$ 131	5%	0.8%
Furniture or fixtures	38,268	-	-	-	38,268	\$ 176	1%	1.0%
Pulp, paper or allied products	188,864	-	68	-	188,932	\$ 216	3%	1.3%
Printed matter	74,318	-	141	-	74,459	\$ 248	1%	1.5%
Chemicals or allied products	479,476	1,877	24	1,375	482,752	\$ 784	7%	4.6%
Petroleum or coal products	588,560	3,641	-	601,171	1,193,372	\$ 260	16%	1.5%
Rubber or miscellaneous plastic products	161,322	-	49	-	161,371	\$ 660	2%	3.9%
Leather or leather products	6,593	-	2	-	6,596	\$ 116	0%	0.7%
Clay, concrete, glass or stone products	817,692	-	17	-	817,709	\$ 93	11%	0.5%
Primary metal products	444,557	-	-	-	444,557	\$ 568	6%	3.3%
Fabricated metal products	183,142	-	16	-	183,158	\$ 666	3%	3.9%
Machinery excl. electrical	46,084	64	48	-	46,196	\$ 1,388	1%	8.2%
Electrical machinery, equipment or supplies	98,270	-	62	-	98,332	\$ 3,135	1%	18.5%
Transportation equipment	123,917	600	117	-	124,633	\$ 1,187	2%	7.0%
Instruments, photographic goods, optical goods, watches, or clocks	10,630	-	4	-	10,634	\$ 463	0%	2.7%
Miscellaneous products of manufacturing	48,030	181	27	411	48,649	\$ 382	1%	2.2%
Waste or scrap materials	-	4,960	-	-	4,960	\$ 1	0%	0.0%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	32,747	489	-	33,236	\$ 97	0%	0.6%
Warehouse & Distribution Center, Rail Intermodal Drayage	1,789,414	-	-	-	1,789,414	\$ 3,739	25%	22.0%
Total	6,542,141	44,837	1,223	648,770	7,236,972	\$ 16,979	100%	100%

### To LA-Orange Region, Outbound, Tons by Commodity Class

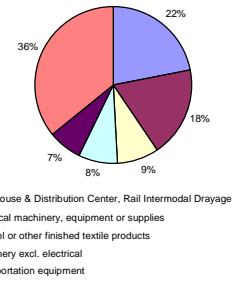
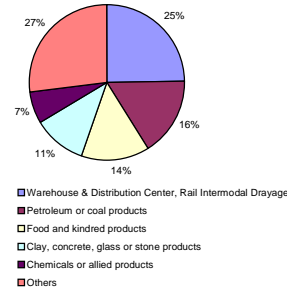
2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	31,812	684	260	2,902	35,658	\$ 23	0%	0.1%
Forest Products	-	-	-	-	-	\$ -	0%	0.0%
Fresh fish or other marine products	-	1,368	288	269	1,925	\$ 2	0%	0.0%
Metallic Ores	-	-	-	-	-	\$ -	0%	0.0%
Coal	-	-	-	-	-	\$ -	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	389,428	389,428	\$ 61	4%	0.3%
Nonmetallic minerals	-	-	-	2,133	2,133	\$ 0	0%	0.0%
Ordinance or accessories	-	-	-	-	-	\$ -	0%	0.0%
Food and kindred products	1,753,698	13,786	20	637	1,768,141	\$ 2,006	18%	8.9%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	7,796	-	17	-	7,814	\$ 35	0%	0.2%
Apparel or other finished textile products	62,726	-	105	-	62,831	\$ 1,516	1%	6.8%
Lumber or wood products, excluding furniture	511,998	-	-	503	512,501	\$ 187	5%	0.8%
Furniture or fixtures	13,679	-	4	-	13,683	\$ 63	0%	0.3%
Pulp, paper or allied products	191,854	17,938	68	-	209,861	\$ 240	2%	1.1%
Printed matter	105,564	-	48	-	105,612	\$ 352	1%	1.6%
Chemicals or allied products	743,219	14,366	778	11,847	770,209	\$ 1,250	8%	5.6%
Petroleum or coal products	1,116,472	48,872	-	770,312	1,935,655	\$ 421	20%	1.9%
Rubber or miscellaneous plastic products	119,992	-	56	-	120,048	\$ 491	1%	2.2%
Leather or leather products	4,527	-	11	-	4,538	\$ 80	0%	0.4%
Clay, concrete, glass or stone products	1,532,335	-	19	184	1,532,538	\$ 174	16%	0.8%
Primary metal products	292,614	7,636	-	-	300,250	\$ 383	3%	1.7%
Fabricated metal products	219,403	-	16	-	219,419	\$ 798	2%	3.6%
Machinery excl. electrical	120,439	-	1,332	-	121,771	\$ 3,660	1%	16.3%
Electrical machinery, equipment or supplies	187,369	-	197	-	187,566	\$ 5,979	2%	26.6%
Transportation equipment	44,967	94	37	-	45,098	\$ 430	0%	1.9%
Instruments, photographic goods, optical goods, watches, or clocks	21,393	-	75	-	21,469	\$ 936	0%	4.2%
Miscellaneous products of manufacturing	81,219	10,085	52	2,229	93,585	\$ 734	1%	3.3%
Waste or scrap materials	-	583	-	-	583	\$ 0	0%	0.0%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	12,169	235	-	12,404	\$ 36	0%	0.2%
Warehouse & Distribution Center, Rail Intermodal Drayage	1,236,715	-	-	-	1,236,715	\$ 2,584	13%	11.5%
Total	8,399,792	127,581	3,618	1,180,444	9,711,436	\$ 22,442	100%	100%

### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	25%
Petroleum or coal products	16%
Food and kindred products	14%
Clay, concrete, glass or stone products	11%
Chemicals or allied products	7%
Others	27%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	22%
Electrical machinery, equipment or supplies	18%
Apparel or other finished textile products	9%
Machinery excl. electrical	8%
Transportation equipment	7%
Others	36%

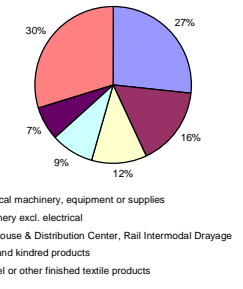
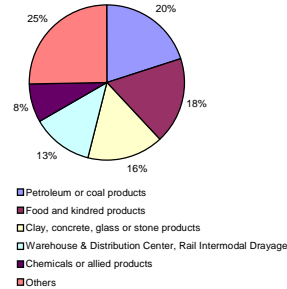


### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Petroleum or coal products	20%
Food and kindred products	18%
Clay, concrete, glass or stone products	16%
Warehouse & Distribution Center, Rail Intermodal Drayage	13%
Chemicals or allied products	8%
Others	25%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Electrical machinery, equipment or supplies	27%
Machinery excl. electrical	16%
Warehouse & Distribution Center, Rail Intermodal Drayage	12%
Food and kindred products	9%
Apparel or other finished textile products	7%
Others	30%



Source: 1996 ITMS Data

# What Commodities ?



### From Other California, Inbound, Tons by Commodity Class

2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	2,019,888	-	88	-	2,019,976	\$ 1,296	5%	3.8%
Forest Products	317,652	-	-	-	317,652	\$ 283	1%	0.8%
Fresh fish or other marine products	-	-	131	-	131	\$ 0	0%	0.0%
Metallic Ores	-	-	-	-	-	\$ -	0%	0.0%
Coal	-	-	-	-	-	\$ -	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	135,879	135,879	\$ 21	0%	0.1%
Nonmetallic minerals	14,255,786	1,538,187	-	19,288	15,813,261	\$ 251	42%	0.7%
Ordinance or accessories	-	-	-	-	-	\$ -	0%	0.0%
Food and kindred products	2,782,831	18,904	156	-	2,801,891	\$ 3,179	7%	9.3%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	1,858	-	46	-	1,904	\$ 9	0%	0.0%
Apparel or other finished textile products	11,694	-	137	-	11,831	\$ 286	0%	0.8%
Lumber or wood products, excluding furniture	4,546,620	19,170	3	-	4,565,793	\$ 1,662	12%	4.9%
Furniture or fixtures	34,732	970	-	-	35,702	\$ 164	0%	0.5%
Pulp, paper or allied products	137,858	51,032	191	-	189,081	\$ 216	1%	0.6%
Printed matter	122,547	-	425	-	122,972	\$ 410	0%	1.2%
Chemicals or allied products	629,493	-	87	-	629,580	\$ 1,022	2%	3.0%
Petroleum or coal products	338,907	31,916	-	16,896	387,720	\$ 84	1%	0.2%
Rubber or miscellaneous plastic products	234,970	-	144	-	235,114	\$ 962	1%	2.8%
Leather or leather products	7,875	-	7	-	7,882	\$ 138	0%	0.4%
Clay, concrete, glass or stone products	3,015,336	370,355	49	-	3,385,740	\$ 384	9%	1.1%
Primary metal products	540,052	12,115	-	-	552,167	\$ 705	1%	2.1%
Fabricated metal products	188,243	-	43	-	188,286	\$ 685	1%	2.0%
Machinery excl. electrical	68,700	-	409	-	69,109	\$ 2,077	0%	6.1%
Electrical machinery, equipment or supplies	177,886	-	254	-	178,140	\$ 5,679	0%	16.7%
Transportation equipment	194,874	2,012	385	-	197,271	\$ 1,879	1%	5.5%
Instruments, photographic goods, optical goods, watches, or clocks	11,717	-	46	-	11,763	\$ 513	0%	1.5%
Miscellaneous products of manufacturing	92,899	-	68	226	93,193	\$ 731	0%	2.1%
Waste or scrap materials	7,112	18,460	-	-	25,572	\$ 5	0%	0.0%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	1,276	416	-	1,692	\$ 5	0%	0.0%
Warehouse & Distribution Center, Rail Intermodal Drayage	5,481,574	-	-	-	5,481,574	\$ 11,454	15%	33.6%
Total	35,221,104	2,064,397	3,085	172,289	37,460,875	\$ 34,100	100%	100%

### To Other California, Outbound, Tons by Commodity Class

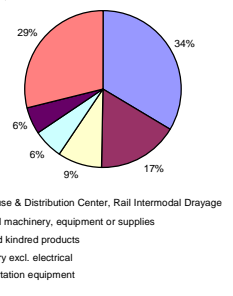
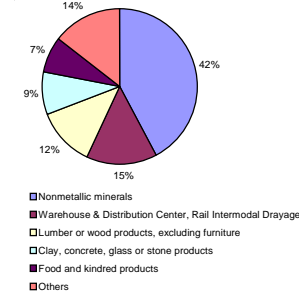
2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	374,830	106,112	508	-	481,450	\$ 309	2%	0.6%
Forest Products	125,169	-	-	-	125,169	\$ 111	0%	0.2%
Fresh fish or other marine products	-	-	345	1,665	2,010	\$ 2	0%	0.0%
Metallic Ores	-	14,347	-	-	14,347	\$ 252	0%	0.5%
Coal	-	-	-	-	-	\$ -	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	-	-	\$ -	0%	0.0%
Nonmetallic minerals	2,738,588	-	-	839	2,739,427	\$ 44	10%	0.1%
Ordinance or accessories	-	6,240	-	-	6,240	\$ 341	0%	0.7%
Food and kindred products	5,068,033	-	30	-	5,068,063	\$ 5,750	18%	11.2%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	736	-	35	171	942	\$ 4	0%	0.0%
Apparel or other finished textile products	88,996	-	193	1,313	90,502	\$ 2,184	0%	4.2%
Lumber or wood products, excluding furniture	1,455,964	6,370	-	-	1,462,334	\$ 532	5%	1.0%
Furniture or fixtures	19,680	-	5	888	20,573	\$ 95	0%	0.2%
Pulp, paper or allied products	304,981	27,990	129	-	333,100	\$ 381	1%	0.7%
Printed matter	191,064	-	93	534	191,691	\$ 639	1%	1.2%
Chemicals or allied products	1,187,911	6,800	1,052	3,218	1,198,981	\$ 1,946	4%	3.8%
Petroleum or coal products	4,210,953	83,525	-	242,515	4,536,992	\$ 987	16%	1.9%
Rubber or miscellaneous plastic products	151,577	-	108	324	152,009	\$ 622	1%	1.2%
Leather or leather products	319	-	23	-	342	\$ 6	0%	0.0%
Clay, concrete, glass or stone products	4,063,358	66,140	28	-	4,129,526	\$ 468	15%	0.9%
Primary metal products	439,499	178,912	-	-	618,411	\$ 790	2%	1.5%
Fabricated metal products	271,810	-	28	-	271,838	\$ 989	1%	1.9%
Machinery excl. electrical	206,297	-	2,602	2,352	211,251	\$ 6,349	1%	12.3%
Electrical machinery, equipment or supplies	389,286	-	381	363	390,030	\$ 12,434	1%	24.1%
Transportation equipment	120,354	1,524	69	2,558	124,505	\$ 1,186	0%	2.3%
Instruments, photographic goods, optical goods, watches, or clocks	40,773	-	144	194	41,111	\$ 1,792	0%	3.5%
Miscellaneous products of manufacturing	81,475	-	98	323	81,896	\$ 643	0%	1.2%
Waste or scrap materials	63,185	-	-	-	63,185	\$ 11	0%	0.0%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty E	-	5,600	863	-	6,463	\$ 19	0%	0.0%
Warehouse & Distribution Center, Rail Intermodal Drayage	6,069,281	-	-	-	6,069,281	\$ 12,682	21%	24.6%
Total	27,664,119	503,560	6,734	257,257	28,431,670	\$ 51,567	100%	100%

### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Nonmetallic minerals	42%
Warehouse & Distribution Center, Rail Intermodal Drayage	15%
Lumber or wood products, excluding furniture	12%
Clay, concrete, glass or stone products	9%
Food and kindred products	7%
Others	14%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	34%
Electrical machinery, equipment or supplies	17%
Food and kindred products	9%
Machinery excl. electrical	6%
Transportation equipment	6%
Others	29%

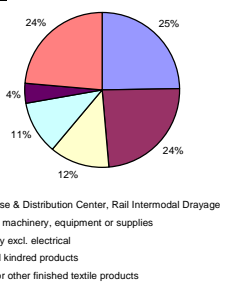
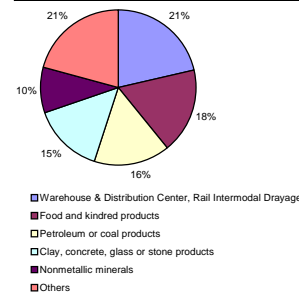


### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	21%
Food and kindred products	18%
Petroleum or coal products	16%
Clay, concrete, glass or stone products	15%
Nonmetallic minerals	10%
Others	21%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Warehouse & Distribution Center, Rail Intermodal Drayage	25%
Electrical machinery, equipment or supplies	24%
Machinery excl. electrical	12%
Food and kindred products	11%
Apparel or other finished textile products	4%
Others	24%



Source: 1996 ITMS Data

# What Commodities ?

### From Other States, Inbound, Tons by Commodity Class

2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	195	459,015	2,510	11	461,731	\$ 296	1%	0.5%
Forest Products	-	800	-	-	800	\$ 1	0%	0.0%
Fresh fish or other marine products	-	-	2,366	-	2,366	\$ 2	0%	0.0%
Metallic Ores	25	8,866	-	-	8,891	\$ 156	0%	0.2%
Coal	371	85,938	-	-	86,309	\$ 2	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	69,159	-	17,866,655	17,935,814	\$ 2,828	45%	4.4%
Nonmetallic minerals	30	92,162	-	216,577	308,769	\$ 5	1%	0.0%
Ordinance or accessories	101	11,469	-	-	11,570	\$ 632	0%	1.0%
Food and kindred products	2,031,315	998,970	2,672	-	3,032,957	\$ 3,441	8%	5.3%
Tobacco products, excluding insecticides	54	-	-	-	54	\$ 1	0%	0.0%
Textile mill products	16,606	3,432	1,864	957	22,859	\$ 104	0%	0.2%
Apparel or other finished textile products	21,646	12,590	5,622	5,566	45,424	\$ 1,096	0%	1.7%
Lumber or wood products, excluding furniture	587,097	412,984	457	34,921	1,035,459	\$ 377	3%	0.6%
Furniture or fixtures	43,447	15,700	1,965	3,272	64,384	\$ 297	0%	0.5%
Pulp, paper or allied products	502,799	802,196	4,553	976	1,310,523	\$ 1,497	3%	2.3%
Printed matter	92,010	51,067	13,287	2,004	158,368	\$ 528	0%	0.8%
Chemicals or allied products	529,132	725,607	17,837	327,806	1,600,382	\$ 2,598	4%	4.0%
Petroleum or coal products	538,007	448,782	340	1,254,875	2,242,004	\$ 488	6%	0.8%
Rubber or miscellaneous plastic products	249,461	55,395	2,905	1,152	308,913	\$ 1,263	1%	2.0%
Leather or leather products	1,163	1,246	531	-	2,940	\$ 52	0%	0.1%
Clay, concrete, glass or stone products	416,083	235,783	1,151	-	653,017	\$ 74	2%	0.1%
Primary metal products	406,400	1,809,917	298	-	2,216,615	\$ 2,831	6%	4.4%
Fabricated metal products	117,579	39,700	12,819	-	170,098	\$ 619	0%	1.0%
Machinery excl. electrical	199,917	16,785	37,389	8,443	262,534	\$ 7,891	1%	12.3%
Electrical machinery, equipment or supplies	202,596	39,577	30,816	1,401	274,390	\$ 8,747	1%	13.6%
Transportation equipment	120,559	999,650	27,671	9,026	1,156,906	\$ 11,020	3%	17.1%
Instruments, photographic goods, optical goods, watches, or clocks	59,250	-	8,950	971	69,171	\$ 3,015	0%	4.7%
Miscellaneous products of manufacturing	44,337	90,157	6,411	19,623	160,528	\$ 1,260	0%	2.0%
Waste or scrap materials	-	198,362	18	967,336	1,165,716	\$ 208	3%	0.3%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty Equipment, Reverse Route	-	3,366,687	99,309	473	3,466,469	\$ 10,110	9%	15.7%
Warehouse & Distribution Center, Rail Intermodal Drayage	1,410,544	-	-	-	1,410,544	\$ 2,947	4%	4.6%
Total	7,590,722	11,051,996	281,741	20,722,046	39,646,504	\$ 64,384	100%	100%

### To Other States, Outbound, Tons by Commodity Class

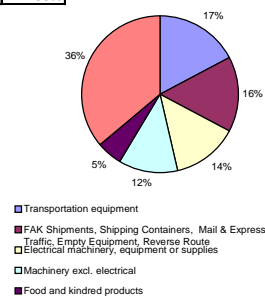
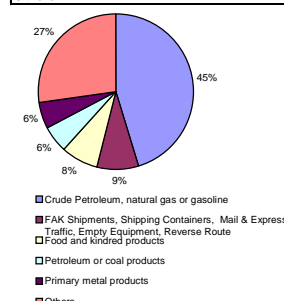
2 Digit STCC Code Description	By Truck	By Rail	By Air	By Water	Total	Value (\$ M)	% of Tons	% Value
Farm Products	158,156	110,772	20,853	-	289,781	\$ 186	2%	0.3%
Forest Products	56	18	7	-	81	\$ 0	0%	0.0%
Fresh fish or other marine products	-	-	13,813	-	13,813	\$ 12	0%	0.0%
Metallic Ores	-	-	-	-	-	\$ -	0%	0.0%
Coal	105	-	-	-	105	\$ 0	0%	0.0%
Crude Petroleum, natural gas or gasoline	-	-	-	-	-	\$ -	0%	0.0%
Nonmetallic minerals	-	-	-	66,916	66,916	\$ 1	0%	0.0%
Ordinance or accessories	118	33,680	-	-	33,798	\$ 1,845	0%	2.5%
Food and kindred products	1,474,505	790,384	2,430	763	2,268,082	\$ 2,573	15%	3.5%
Tobacco products, excluding insecticides	-	-	-	-	-	\$ -	0%	0.0%
Textile mill products	3,843	1,574	1,510	8,833	15,760	\$ 71	0%	0.1%
Apparel or other finished textile products	39,344	7,546	8,880	50,649	106,419	\$ 2,568	1%	3.5%
Lumber or wood products, excluding furniture	122,835	53,409	250	-	176,494	\$ 64	1%	0.1%
Furniture or fixtures	18,095	2,813	535	29,227	50,670	\$ 233	0%	0.3%
Pulp, paper or allied products	100,525	142,939	6,362	149	249,975	\$ 286	2%	0.4%
Printed matter	40,785	800	4,843	17,130	63,558	\$ 212	0%	0.3%
Chemicals or allied products	325,736	348,656	42,957	7,805	725,154	\$ 1,177	5%	1.6%
Petroleum or coal products	297,236	860,469	2,893	2,512,481	3,673,079	\$ 799	24%	1.1%
Rubber or miscellaneous plastic products	126,535	24,284	4,974	10,462	166,255	\$ 680	1%	0.9%
Leather or leather products	20,740	506	983	-	22,229	\$ 390	0%	0.5%
Clay, concrete, glass or stone products	213,661	127,119	2,537	-	343,317	\$ 39	2%	0.1%
Primary metal products	201,511	326,028	1,035	-	528,574	\$ 675	3%	0.9%
Fabricated metal products	253,103	3,237	3,948	-	260,288	\$ 947	2%	1.3%
Machinery excl. electrical	492,729	16,052	114,505	76,620	693,906	\$ 21,036	4%	28.6%
Electrical machinery, equipment or supplies	522,813	34,747	46,280	12,160	616,000	\$ 19,638	4%	26.7%
Transportation equipment	56,209	513,855	3,525	82,752	656,341	\$ 6,252	4%	8.5%
Instruments, photographic goods, optical goods, watches, or clocks	93,163	36	7,796	9,021	110,016	\$ 4,795	1%	6.5%
Miscellaneous products of manufacturing	111,803	95,524	4,677	6,443	218,447	\$ 1,714	1%	2.3%
Waste or scrap materials	155,015	440,649	5,862	1,095,626	1,697,152	\$ 303	11%	0.4%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty Equipment, Reverse Route	-	1,717,658	84,063	253,052	2,054,773	\$ 5,993	13%	8.2%
Warehouse & Distribution Center, Rail Intermodal Drayage	449,993	-	-	-	449,993	\$ 940	3%	1.3%
Total	5,278,613	5,652,755	385,518	4,240,088	15,556,975	\$ 73,429	100%	100%

### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Crude Petroleum, natural gas or gasoline	45%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty Equipment, Reverse Route	9%
Food and kindred products	8%
Petroleum or coal products	6%
Primary metal products	6%
Others	27%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Transportation equipment	17%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty Equipment, Reverse Route	16%
Electrical machinery, equipment or supplies	14%
Machinery excl. electrical	12%
Food and kindred products	5%
Others	36%

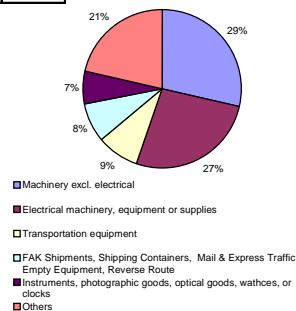
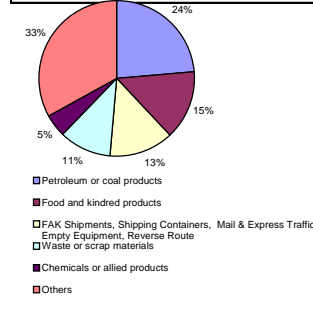


### TOP 5 COMMODITIES BASED ON - TONS

STCC 2 Digit Commodity Description	Top 5
Petroleum or coal products	24%
Food and kindred products	15%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty Equipment, Reverse Route	13%
Waste or scrap materials	11%
Chemicals or allied products	5%
Others	33%

### TOP 5 COMMODITIES BASED ON - VALUE

STCC 2 Digit Commodity Description	Top 5
Machinery excl. electrical	29%
Electrical machinery, equipment or supplies	27%
Transportation equipment	9%
FAK Shipments, Shipping Containers, Mail & Express Traffic, Empty Equipment, Reverse Route	8%
Instruments, photographic goods, optical goods, watches, or clocks	7%
Others	21%



Source: 1996 ITMS Data

# What Commodities ?

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## ***Commodity Trade in the Bay Area – Regional Trade Patterns at the County Level***

Most counties in the Bay Area generate very little trade outside of California. Alameda County generates a significant amount of trade accessing the I-5 corridor via I-580 to reach markets and suppliers to the north in Oregon and Washington and to the south in Los Angeles, Arizona, and Texas. Contra Costa County also has trade links to the north and south and further into the interior of the U.S. Santa Clara County has strong ties with states with major concentrations of high tech manufacturing including Washington, Oregon, and Texas as well as distribution relationships with much of the southwest.

